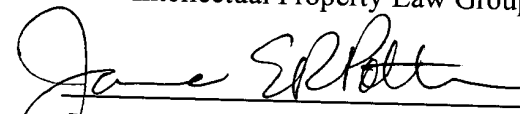


matter is added to the application. Applicants respectfully submit that the above-identified application is now in conformance with 37 C.F.R. §§ 1.821-1.825 and WIPO Standard 25.

Respectfully submitted,

Seed Intellectual Property Law Group PLLC



Jane E. R. Potter
Registration No. 33,332

JEP:mls

Enclosures:

Computer Diskette

Declaration Regarding Computer Diskette

Paper Copy of the Sequence Listing

701 Fifth Avenue, Suite 6300

Seattle, Washington 98104-7092

(206) 622-4900

Fax: (206) 682-6031

Wpn/210121 - Corixa/419c7/Seq/419c7.amd.doc

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Tony N. Frudakis et al.

Application No. : 09/534,825

Filed : March 23, 2000

For

COMPOSITIONS AND METHODS FOR THE TREATMENT AND
DIAGNOSIS OF BREAST CANCER

Art Unit : 1641

Docket No. : 210121.419C7

Date : August 30, 2000

Box Missing Parts
Assistant Commissioner for Patents
Washington, D.C. 20231DECLARATION

Sir:

I, Monica Steinborn, in accordance with 37 C.F.R. § 1.821(f) do hereby declare that, to the best of my knowledge, the content of the paper entitled "Sequence Listing" and the computer readable copy contained within the floppy disk are the same.

I declare further that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true and further that these statements are made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Dated this 30th day of August, 2000.Monica Steinborn
Legal Assistant701 Fifth Avenue, Suite 6300
Seattle, WA 98104-7092
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SEQUENCE LISTING

<110> Frudakis, Tony N.
Smith, John M.
Reed, Steven G.
Misher, Lynda
Retter, Marc W.
Dillon, Davin C.

<120> COMPOSITIONS AND METHODS FOR THE
TREATMENT AND DIAGNOSIS OF BREAST CANCER

<130> 210121.419C7

<140> US/09/534,825

<141> 2000-03-23

<160> 317

<170> FastSEQ for Windows Version 3.0

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<211> 363

<212> DNA

<213> Homo sapien

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ttgtctaagg cgattgaagt cgtccagggg catgatgagt caccaggagt gtttttagag 180
cacctccagg aggcctatcg gatttacacc ccttttgacc tggcagcccc cgaaaatagc 240
catgctctta atttggcatt tgtggctcag gcagccccag atagtataag gaaactccaa 300
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<210> 2

<211> 121

<212> PRT

<213> Homo sapien

<400> 2

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1 5 10 15
Gly Arg Thr Phe Asp Asp Phe His Arg Tyr Leu Leu Val Gly Ile Gln
20 25 30
Gly Ala Ala Gln Lys Pro Ile Asn Leu Ser Lys Ala Ile Glu Val Val
35 40 45
Gln Gly His Asp Glu Ser Pro Gly Val Phe Leu Glu His Leu Gln Glu
50 55 60

Ala Tyr Arg Ile Tyr Thr Pro Phe Asp Leu Ala Ala Pro Glu Asn Ser
 65 70 75 80
 His Ala Leu Asn Leu Ala Phe Val Ala Gln Ala Ala Pro Asp Ser Lys
 85 90 95
 Arg Lys Leu Gln Lys Leu Glu Gly Phe Cys Trp Asn Glu Tyr Gln Ser
 100 105 110
 Ala Phe Arg Asp Ser Leu Lys Gly Phe
 115 120

<210> 3
 <211> 1080
 <212> DNA
 <213> Homo sapien

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 <223> n = A,T,C or G

<400> 3

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 tcttcaaagc ctaacagatc aagcagctct ccggtgcaca acctgcgcc aggtaaatgc 180
 caaaaaaggt cctaaaccca gcccaggcca ccgtctccaa gaaaactcac caggagaaaa 240
 gtgggaaatt gactttacag aagtaaaacc acaccgggct gggtacaaat accttctagt 300
 actggtagac accttctctg gatggactga agcatttgct accaaaaacg aaactgtcaa 360
 tatggtagtt aagtttttac tcaatgaaat catccctcga cgtgggctgc ctgttgccat 420
 agggctctgat aatggaacgg ccttcgcctt gtctatagtt taatcagtca gtaaggcggt 480
 aaacattcaa tggaagctcc attgtgccta tcgaccacga gctctgggca agtagaacgc 540
 atgaactgca ccctaaaaaa acactcttac aaaattaatc ttaaaaaccg gtgttaattg 600
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 ttcttcccc agttaactnt tttttnttaa aattcccaaa aaangaaccn cctgctggaa 900
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<210> 4
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 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(1087)
 <223> n = A,T,C or G

<400> 4

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A1
 cm. T

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 tttccatcat ttttaaggggt taaaatcatc ttgttcagac ctcagcatat aaaatgaccc 180
 atctgtagac ctcaggctcc aaccataccc caagagtgtg ctgggtttgt ttaaattact 240
 gccaggtttc agctgcagat atccctggaa ggaatattcc agattccctg agtagtttcc 300
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 gattttggat ttttaacttt aatgcttgtg aaacgctata aaaaaaattt tctacccta 420
 gctttaaagt actgttagtg agaaattaaa attccttcag gaggattaaa ctgccatttc 480
 agttacccta attccaaatg ttttggtggt tagaatcttc tttaatgttc ttgaagaagt 540
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 aaaacggant cttgctccgt tgtccangct gggaattttt ttttggccaa tctccgctnc 660
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 <211> 1010
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1) ... (1010)
 <223> n = A,T,C or G

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 aggtaacaca catactatct cccaaatacc taccacaag ctcaacaatt ttaaactggt 180
 aggatcactg gctctaata ccatgacatg aggtcaccac caaaccatca agcgctaaac 240
 agacagaatg tttccactcc tgatccactg tgtgggaaga agcaccgaac ttaccactg 300
 gggggcctgc ntcanaanaa aagcccatgc ccccggtnt ncctttnaac cggaacgaat 360
 naaccacca tccccacanc tctctgttc ntgggcctg catcttgtg cctcntntnc 420
 tttnggggan acntggggaa ggtaccccat ttcenttgacc ccncnanaaa acccngtgg 480
 cccttgccc tgattcnent gggccttttc tcttttccct tttgggtgt ttaaattccc 540
 aatgtcccn gaacctctc cntnctgcc aaaacctacc taaattntc nctangntt 600
 ttcttggtgt tntttttcaa aggtnacett ncctgttcan nccnanaaa aattnttcc 660
 ntatnntggn ccnnaaaaa nnnatcnnc cnaattgccc gaattgggtt ggttttctc 720
 nctgggggaa accctttaa tttccccctt ggccggcccc ccttttttcc ccccttnga 780
 aggcaggngg ttcttcccga acttccaatt ncaacagccn tgccattgn tgaaacctc 840
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<210> 6
 <211> 950
 <212> DNA

A!
 cm. x

<213> Homo sapien

<220>

<221> misc_feature

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<223> n = A,T,C or G

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ctgggattac	aggcgtgcaa	caccacaccc	ggctaatttt	gtatttttaa	tagagatggg	180
gttttccctt	gttggccann	atggtctcna	accctgacc	tcnngtgatc	ccccncccn	240
nganctenna	ctgctgggga	tnncegnnnn	nnnccctccn	ncncnnnnnn	ncncnntccn	300
tnntccttnc	tcnnnnnnnn	cnntcnntcc	nncttctcnc	cnmntntnt	cnncnncenn	360
cnnnccnct	neccnennnt	tcnctncnn	tnccnncnn	nnccnncnn	cnnnnctnn	420
ccnntacntc	ntnnnnnnnt	ccntctntnn	cctcnnnnnt	cnctncnct	tnctcctcn	480
ntnnnnnnct	ccnnnnntct	ctncnncnn	tnccctnnn	ncncncccc	nectcncnc	540
ctnnntnnn	cnncnnntcc	ntnccnttn	nnccnnntnn	cnncntcnc	nnctntntc	600
ccnccnnttc	cttnccnctn	nnntntcnn	cnctcnnct	ntttctcct	nnntccnnc	660
tcnnttcnc	cnntccncc	ccccnctnt	ctctcncnn	nnnnntntn	nnnctcnc	720
tnctccttc	ntcnntnct	tnctntcnc	nnnnntcnc	tnccntntn	ctnnntcnc	780
tnctntntn	ccntccttn	ctntctcctn	tnccctccc	ctcncctct	cnctcncnc	840
ccnntntntn	tnnccnnt	ncnnnnnc	cnctnttn	ttctctctnn	nnntnccct	900
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<210> 7

<211> 1086

<212> DNA

<213> Homo sapien

<220>

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<223> n = A,T,C or G

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agaaaaattc	ttctgccttg	agatgctgtt	aatctgtaac	cctagcccca	accctgtgct	180
cacagagaca	tgtgctgtgt	tgactcaagg	ttcaatggat	ttagggctat	gctttgttaa	240
aaaagtgtct	gaagataata	tgcttgtaa	aagtcacac	cattctctaa	tctcaagtac	300
ccaggggacac	aatacactgc	ggaaggccgc	agggacctct	gtctaggaaa	gccagggtatt	360
gtccaagatt	tctcccatg	tgatagcctg	agatagggcc	tcattgggaag	ggtaagacct	420
gactgtcccc	cagcccgaca	ccccccagcc	cgacatcccc	cagcccgaca	cccgaagg	480
gtctgtgctg	aggaagatta	ntaaaagagg	aaggctcttt	gcattgaagt	aagaagaagg	540
ctctgtctcc	tgctcgtccc	tgggcaataa	aatgtcttgg	tgtaaaacct	gaatgtatgt	600
tctacttact	gagaatagga	gaaaacatcc	ttagggctgg	aggtgagaca	ccctggcggc	660
atactgctct	ttaatgcacg	agatgtttgt	ntaattgcca	tccagggcc	cccccttcc	720
ttaacttttt	atganacaaa	aactttgttc	ncctttcctg	cgaacctctc	ccccatttan	780
cctattggcc	tgcccatccc	ctcccaaan	ggtgaaaana	tgcttntaaa	tnccaggagg	840
tccaaaacnt	tttcccgctg	gtcccccttc	caaccccgctc	cctggggcnn	tttctcccc	900

AI
cm.t

```

aacntgtccc ggntccttcn tteccncccc cttcccnngan aaaaaacccc gnttganggn      960
gccccctcaa attataacct ttcnnaaaca aannggttcn aaggtgggtt gnttccgggtg      1020
cggctggcct tgagggtcccc cctncacccc aatttggaan cngtttttt ttattgccc      1080
ntcccc                                         1086

```

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<210> 8
<211> 1177
<212> DNA
<213> Homo sapien

```

```

<220>
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```

```

<400> 8

```

```

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atgggtgttta aatccagcta cactacttcc tgactcaaac tccactattc ctgttcatga      180
ctgtcaggaa ctgttggaac ctactgaaac tggccgacct gatcttcaa atgtgcccct      240
aggaaagggt gatgccaccg tgttcacaga cagtaccncc ttctcgaga aggactacg      300
agggggccggg gcanctgtta ccaaggagac tnatgtgttg tgggctcagg ctttaccanc      360
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gggatattaa cgtaaacact gacagcaggc acgcctttgc tactgtgcat gtacgtggag      480
ccatctacca ggagcgtggg ctactcactc ggcagggtggc tgnatccac tgtaaangga      540
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gatgctgtgt tgactttcac tcnncctct taaacttgct gccacantc tcctttccca      660
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accaataaaa acgggggangg tnggtnganc nncctgaccc aaaaataatg gatcccccg      780
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ggaaaacctg ncttaccan ttatcnctg gacntcccc ttcncggtn gnttanaaaa      960
aaaagccnc antccntcc naaatttgca cngaaaggna aggaatttaa cttttatttt      1020
ttntccttt antttgtnn cccctttta cccaggcgaa cngccatnt ttaanaaaaa      1080
aanagaang tttatttttc cttngaacca tcccaatana aancacccgc nggggaacgg      1140
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<210> 9
<211> 1146
<212> DNA
<213> Homo sapien

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<400> 9

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gaaaagggtc aaaaggagct gttgacagtc atcccagggt ggccaatgtg tccagagtac      120
agactccatc agtgaggta aagcctgggg cttttcagag aaggaggat tatgggtttt      180

```

AI
Cm. +

ccaattatac aagtcagaag tagaaagaag ggacataaac caggaagggg gtggagcact 240
 catcacccag agggacttgt gcctctctca gtggtagtag aggggctact tcctcccacc 300
 acggttgcaa ccaagaggca atgggtgatg agcctacagg ggacatancc gaggagacat 360
 gggatgaccc taagggagta ggctggtttt aaggcgggtg gactgggtga gggaaactct 420
 cctcttcttc agagagaagc agtacaggc gagctgaacc ggctgaaggt cgaggcgaaa 480
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 gaagccggga atttcattaa caaccgcga cacagcttga acattgtgag gttcagtac 660
 ccttcaaggg gccactccac tccaactttg gccattctac ttgcnaaat ttccaaaact 720
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 ttccaaaaac naattccctt accaaaaaac aaaaaccnc ccttnttccc ttcnccctn 960
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 cccccatttt ccnaaacttt tcccancna ggaanccnc ctttttttng gtengattna 1080
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 atagan 1146

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 <212> DNA
 <213> Homo sapien

<400> 10
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 tattggtctt gagttctgag gccagttttt ttcttctgtt gagtatgcgg gattgtcagg 180
 cagatctggc tgtggaaagg agactgtggg cagcaagttt agaggcgtga ctgaaagtca 240
 cactgcatct tgagctgctg aatcagcttt ctggttacca cgggcaacag ccgtgttttc 300
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 ggtagatggc tccacgtaca tgcacagtag caaaggcgta cctgctgtca gtgttaacgt 420
 taatatcctt accccatcgg agagcctgag tgagggcgat caattcagcc cttttgtgct 480
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 accgg 545

<210> 11
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 <212> DNA
 <213> Homo sapien

<400> 11
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 aatcgagcct aggaga 196

<210> 12
 <211> 388
 <212> DNA
 <213> Homo sapien

AI
Em't

<220>
 <221> misc_feature
 <222> (1)...(388)
 <223> n = A,T,C or G

<400> 12

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aataaaataa	ggaaaacgat	gtctgtgtat	agccaagtca	gntatcctaa	aaggagatac	180
taagtgacat	taaatatcag	aatgtaaaac	ctgggaacca	ggttcccagc	ctgggattaa	240
actgacagca	agaagactga	acagtactac	tgtgaaaagc	ccgaagnggc	aatatgttca	300
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tactatacct	cctttatagc	ctaggaga				388

<210> 13
 <211> 337
 <212> DNA
 <213> Homo sapien

<400> 13

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acaagatatg	atttctacat	cagatgctct	ttcctttcct	gtttatttcc	tttttatttc	180
ggttgtgggg	tgaatgtaa	tagctttgtt	tcaagagaga	gttttggcag	tttctgtagc	240
ttctgacact	gctcatgtct	ccaggcatct	atttgcactt	taggaggtgt	cgtgggagac	300
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 <212> DNA
 <213> Homo sapien

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 <222> (1)...(571)
 <223> n = A,T,C or G

<400> 14

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tatgtggggg	ggggnntttg	natagaaagt	ntttantcac	anagtcacag	ggacttttnt	480
cttttggnna	ctgagctaaa	aagggtgnt	tttcgggtgg	gggcagatga	aggctcacag	540
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<210> 15
 <211> 548

Al
 cm. +

<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(548)
<223> n = A,T,C or G

<400> 15

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tccccacccc gcaactgaaac ttcaccttct aactgtctac ctaaccaaatt tctacccttc 180
aagtcttttg tgctgtctca ctactctttt tttttttttt tttntttttg agatggagtc 240
tggctgtgca gccaggggt ggagtacaat ggcacaacct cagctcactg naacctccgc 300
ctcccagggt catgagattc tcctgnttca gccttcccag tagctgggac tacaggtgtg 360
catcaccatg cctggntaat cttttttngt tttngggtag agatgggggt tttacatgtt 420
ggccaggntg gtntcgaact cctgacctca agtgatccac ccacctcagg ctcccaaagt 480
gctaggatta cagacatgag ccactgngcc cagnctggt gcatgctcac ttctctaggc 540
aactacta 548

<210> 16
<211> 638
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(638)
<223> n = A,T,C or G

<400> 16

ttccgttatg cacatgcaga atattctatc ggtacttcag ctattactca ttttgatggc 60
gcaatccgag cctatcctca agatgagtat ttagaaagaa ttgatttagc gatagaccaa 120
gctggtaagc actctgacta cagcaaattg ttcagatgtg atggatttat gacagttgat 180
ctttggaaga gattattaag tgattatttt aaagggaatc cattaattcc agaatatctt 240
ggtttagctc aagatgatat agaaatagaa cagaaagaga ctacaaatga agatgtatca 300
ccaactgata ttgaagagcc tatagtagaa aatgaattag ctgcatttat tagccttaca 360
catagcgatt ttcttgatga atcttatatt cagccatcga catagcatta cctgatgggc 420
aaccttacga ataatagaaa ctgggtgcgg ggctattgat gaattcatcc ncagtaaat 480
tggatatnac aaaatataac tcgattgcat ttggatgatg gaatactaaa tctggcaaaa 540
gtaacttttg agctactagt aacctctctt tttgagatgc aaaattttct tttagggttt 600
cttattctct actttacgga tattggagca taacggga 638

<210> 17
<211> 286
<212> DNA
<213> Homo sapien

<400> 17

actgatggat gtcgccggag gcgaggggcc ttatctgatg ctcggtgcc tgttcgtgat 60
gtgcgcggcg attgggctgt ttatctcaaa caccgccacg gcggtgctga tggcgccat 120

AI
Em.t

tgccttagcg gcggcggaagt caatgggcgt ctcaccctat ccttttgcca tgggtgggtggc 180
 gatggcggtc tgcggcggtt ttatgacccc ggtctcctcg ccggttaaca ccctgggtgct 240
 tggccctggc aagtactcat ttagcgattt tgtcaaaaata ggcgtg 286

<210> 18
 <211> 262
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(262)
 <223> n = A,T,C or G

<400> 18
 tcggtcatag cagcccccctt ttctcaattt catctgtcac taccctgggtg tagtatctca 60
 tagccttaca tttttatagc ctctccctcg gtctgtcttt tgattttcct gcctgtaatc 120
 catatcacac ataactgcaa gtaaacattt ctaaagtgtg gttatgctca tgtcactcct 180
 gtgncaagaa atagtttcca ttaccgtctt aataaaaattc ggatttggtc ttttctattn 240
 tcactcttca cctatgaccg aa 262

<210> 19
 <211> 261
 <212> DNA
 <213> Homo sapien

<400> 19
 tcggtcatag caaagccagt gggttgagct ctctactgtg taaactccta aaccaaggcc 60
 atttatgata aatgggtggc ggatttttat tataaacatg taccatgca aatttcctat 120
 aactctgaga tatattcttc tacattttaa caataaaaat aatctatttt taaaagccta 180
 atttgcgtag ttaggtaaga gtgtttaatg agagggtata aggtataaat caccagtcaa 240
 cgtttctctg cctatgaccg a 261

<210> 20
 <211> 294
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(294)
 <223> n = A,T,C or G

<400> 20
 tacaacgagg cgacgtcggt aaaatcggac atgaagccac cgctgggtctt ttcgtccgag 60
 cgataggcgc cggccagcca gcggaacggt tgcccggatg gcgaagcgag ccggagttct 120
 tcggactgag tatgaatctt gttgtgaaaa tactcgccgc ctctgttcga cgacgtcgcg 180
 tcgaaatctt cgantcctt acgatcgaag tcttcgtggg cgacgatcgc ggtcagttcc 240
 gccccaccga aatcatgggt gagccggatg ctgnccccga agnctcgtt tgtn 294

<210> 21

AI
 cont

<211> 208
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(208)
 <223> n = A,T,C or G

<400> 21

ttggtaaagg gcatggacgc agacgcctga cgtttggtcg aaaatctttc attgattcgt 60
 atcaatgaat agggaaattc ccaaagaggg aatgtcctgt tgctcgccag tttttntggt 120
 gttctcatgg anaaggcaan gagctcttca gactattggn attntcgttc ggtcttctgc 180
 caactagtcg ncttgcnang atcttcat 208

<210> 22
 <211> 287
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(287)
 <223> n = A,T,C or G

<400> 22

ncnnttgagc tgagtgattg agatntgtaa tggttgtaag ggtgattcag gcggattagg 60
 gtggcggttc acccggcagt gggctctccg acaggccagc aggatttggg gcagggtacgg 120
 ngtgcgcata gctcgactat atgctatggc aggcgagccg tggaaggngg atcagggtcac 180
 ggcgctggag ctttccacgg tccatgnatt gngatggctg ttctaggcgg ctgttgccaa 240
 gcgtgatggt acgctggctg gagcattgat ttctggtgcc aaggtgg 287

<210> 23
 <211> 204
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(204)
 <223> n = A,T,C or G

<400> 23

ttgggtaaag ggagcaagga gaaggcatgg agaggctcan gctggctcctg gcctacgact 60
 gggccaagct gtcgcggggg atggtggaga actgaagcgg gacctcctcg aggtcctccg 120
 ncgttacttc nccgtccagg aggaggggtct ttccgtggctc tnggaggagc ggggggagaa 180
 gatnctcttc atggtcnaca tccc 204

<210> 24
 <211> 264
 <212> DNA

AI
 Cm.t

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(264)

<223> n = A,T,C or G

<400> 24

tggtattggtc aggagcgggt agagtggcac cattgagggg atattcaaaa atattatattt	60
gtcctaaatg atagtgtgctg agtttttctt tgacccatga gttatattgg agtttatttt	120
ttaactttcc aatcgcatgg acatgttaga cttattttct gttaatgatt nctattttta	180
ttaaattgga ttgagaaat tggttnttat tatatcaatt ttggtattt gttgagtttg	240
acattatagc ttagtatgtg acca	264

<210> 25

<211> 376

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(376)

<223> n = A,T,C or G

<400> 25

ttacaacgag gggaaactcc gtctctacaa aaattaaaaa attagccagg tgtggtggtg	60
tgcacccgca atcccagcta cttgggaggt tgagacacaa gantcaccta natgtgggag	120
gtcaagggtt catgagtcac gattgtgcca ctgcactcca gcctgggtga cagaccgaga	180
ccctgcctca anaganaang aataggaagt tcagaaatcn tggntgtggn gccagcaat	240
ctgcatctat ncaaccctg caggcaangc tgatgcagcc tangttcaag agctgctgtt	300
tctggaggca gcagttnggg cttccatcca gtatcacggc cacactcgca cnagccatct	360
gtcctccgtn tgnac	376

<210> 26

<211> 372

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(372)

<223> n = A,T,C or G

<400> 26

ttacaacgag gggaaactcc gtctctacaa aaattaaaaa attagccagg tgtggtggtg	60
tgcacctgta atcccagcta cttgggcggc tgagacacaa gaaccaccta aatgtgggag	120
ggtcaagggtt gcatgagtc tgatcgcgcc actgcactcc agcctgggtg acagactgag	180
accctgcctc aaaagaaaaa gaataggaag ttcagaaacc ctgggtgtgg ngcccagcaa	240
tctgcattta aacaatccct gcaggcaatg ctgatgcagc ctaagttcaa gagctgctgt	300
tctggaggca gnagtaagg cttccatcca gcatcacggn caacactgca aaagcacctg	360
tcctcgttgg ta	372

AI
unit

<210> 27
 <211> 477
 <212> DNA
 <213> Homo sapien

<400> 27
 ttctgtccac atctacaagt tttatatttatt ttgtggggtt tcagggtgac taagtttttc 60
 cctacattga aaagagaagt tgctaaaagg tgcacaggaa atcatttttt taagtgaata 120
 tgataatatg ggtccgtgct taatacaact gagacatatt tgttctctgt ttttttagag 180
 tcacctctta aagtccaatc ccacaatggg gaaaaaaaaa tagaaagtat ttgttctacc 240
 ttttaaggaga ctgcagggat tctccttgaa aacggagtat ggaatcaatc ttaaataaat 300
 atgaaattgg ttggtcttct gggataagaa attcccaact cagtgtgctg aaattcacct 360
 gacttttttt gggaaaaaat agtcgaaaaat gtcaatttgg tccataaaaat acatgttact 420
 attaaaagat atttaaagac aaattctttc agagctctaa gattggtgtg gacagaa 477

<210> 28
 <211> 438
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(438)
 <223> n = A,T,C or G

<400> 28
 tctncaacct cttgantgtc aaaaaccttn taggctatct ctaaaagctg actggtattc 60
 attccagcaa aatccctcta gtttttggag tttcctttta ctatctgggg ctgcctgagc 120
 cacaaatgcc aaattaagag catggctatt ttcgggggct gacagggtcaa aaggggtgta 180
 aatccgataa gcctcctgga ggtgctctaa aaacactcct ggtgactcat catgcccctg 240
 gacgacttca atcgncctag acaagtttat aggtttcttg gcagctccct gaataccac 300
 gaggagatac cgggtggaaat cgtcaaaaagt tctcctcca cttgagaaat ttgggtocca 360
 attaggtccc aattgggtct ctaatcacta ttcctctagc ttcctcctcc ggnctattgg 420
 ttgatgtgag gttgaaga 438

<210> 29
 <211> 620
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(620)
 <223> n = A,T,C or G

<400> 29
 aagagggtac cagccccaag ccttgacaac ttccataggg tgtcaagcct gtgggtgcac 60
 agaagtcaaa aattgagttt tgggatcctc agcctagatt tcagaggata taaagaaaca 120
 cctaacacct agatattcag acaaaagttt actacaggga tgaagctttc acggaaaacc 180
 tctactagga aagtacagaa gagaaatgtg ggtttggagc ccccaaacag aatccctct 240

AI
 com't

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agaacactgc ctaatgaaac tgtgagaaga tggccactgt catccagaca ccagaatgat      300
agaccaccca aaaacttatg ccatattgcc tataaaacct acagacactc aatgccagcc      360
ccatgaaaaa aaaactgaga agaagactgt nccctacaat gccaccggag cagaactgcc      420
ccaggccatg gaagcacagc tcttatatca atgtgacctg gatgttgaga catggaatcc      480
nangaaatcn ttttaanact tccacggtnn aatgactgcc ctattanatt cngaacttan      540
atccnggcct gtgacctctt tgctttggcc attccccctt tttggaatgg ctnttttttt      600
cccatgcctg tncctcttta

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<210> 30
<211> 100
<212> DNA
<213> Homo sapien

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<400> 30
ttacaacgag ggggtcaatg tcataaatgt cacaataaaa caatctcttc tttttttttt      60
tttttttttt tttttttttt tttttttttt tttttttttt

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<210> 31
<211> 762
<212> DNA
<213> Homo sapien

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<220>
<221> misc_feature
<222> (1)...(762)
<223> n = A,T,C or G

```

```

<400> 31
tagtctatgc gccggacaga gcagaattaa attggaagtt gccctccgga ctttctaccc      60
acactcttcc tgaaaagaga aagaaaagag gcaggaaaga ggtaggatt tcattttcaa      120
gagtcagcta attaggagag cagagtttag acagcagtag gcaccccatg atacaaacca      180
tgacaaaagt ccctgttttag taactgccag acatgatcct gctcagggtt tgaaatctct      240
ctgcccataa aagatggaga gcaggagtgc catccacatc aacacgtgtc caagaaagag      300
tctcagggag acaagggtat caaaaaacaa gattcttaat gggaaggaaa tcaaaccaaa      360
aaattagatt tttctctaca tatatataat atacagatat ttaacacatt attccagagg      420
tggtccagat ccttggggct tgagagatgg tgaaaacttt tgttccacat taacttctgc      480
tctcaaattc tgaagtatat cagaatggga caggcaatgt tttgctccac actggggcac      540
agaccctaat ggttctgtgc ccgaagaaga gaagcccgaa agacatgaag gatgcttaag      600
gggggttggg aaagccaaat tggtantatc ttttcctcct gcctgtgttc cngaagtctc      660
cnctgaagga attcttaaaa ccctttgtga ggaaatgccc ccttaccatg acaantggtc      720
ccattgcttt tagggngatg gaaacaccaa gggttttgat cc

```

```

<210> 32
<211> 276
<212> DNA
<213> Homo sapien

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<400> 32
tagtctatgc gtgtattaac ctccccctcc tcagtaacaa ccaaagaggc aggagctggt      60
attaccaacc ccattttaca gatgcacaa taatgacaga gaagtgaagt gacttgcgca      120
cacaaccagt aaattggcag agtcagattt gaatccatgg agtctggtct gcactttcaa      180

```

AI
Com. +

tcaccgaata ccctttctaa gaaacgtgtg ctgaatgagt gcatggataa atcagtgtct 240
actcaacatc ttgacctaga tatcccgcat agacta 276

<210> 33
<211> 477
<212> DNA
<213> Homo sapien

<400> 33
tagtagttgc caaatatttg aaaatttacc cagaagtgtg tgaaaacttt ttggaaacaa 60
aaacaaataa agccaaaagg taaaataaaa atatctttgc actctcgtta ttacctatcc 120
ataacttttt caccgtaagc tctcctgctt gttagtgtag tgtgggtata ttaaactttt 180
tagttattat tttttattca cttttccact agaaagtcac tattgattta gcacacatgt 240
tgatctcatt tcattttttc tttttatagg caaaatttga tgctatgcaa caaaaataact 300
caagcccatt atcttttttc cccccgaaat ctgaaaattg caggggacag aggggaagtta 360
tcccattaaa aaattgtaaa tatgttcagt ttatgtttta aaatgcacaa aacataagaa 420
aattgtgttt acttgagctg ctgattgtaa gcagttttat ctcaggggca actacta 477

<210> 34
<211> 631
<212> DNA
<213> Homo sapien

<400> 34
tagtagttgc caattcagat gatcagaaat gctgctttcc tcagcattgt cttgttaaac 60
cgcatgccat ttggaacttt ggcagtgaga agccaaaagg aagagggtgaa tgacatatat 120
atatatatat attcaatgaa agtaaaatgt atatgctcat atactttcta gttatcagaa 180
tgagttaagc tttatgccat tgggctgctg catattttta tcagaagata aaagaaaatc 240
tgggcatttt tagaatgtga tacatgtttt tttaaaactg ttaaataatta tttcgatatt 300
tgtctaagaa ccggaatgtt cttaaaatct actaaaacag tattgtttga ggaagagaaa 360
actgtactgt ttgccattat tacagtcgta caagtgcacg tcaagtcacc cactctctca 420
ggcatcagta tccacctcat agctttacac attttgacgg ggaatattgc agcatcctca 480
ggcctgacat ctgggaaagg ctcagatcca cctactgctc cttgctcgtt gatttggttt 540
aaaatattgt gcctggtgtc acttttaagc cacagccctg cctaaaagcc agcagagaa 600
agaaccgcga ccattctata ggcaactact a 631

<210> 35
<211> 578
<212> DNA
<213> Homo sapien

<400> 35
tagtagttgc catcccatat tacagaaggc tctgtataca tgacttattt ggaagtgatc 60
tgttttctct ccaaaccat ttatcgtaat ttcaccagtc ttggatcaat cttgggtttcc 120
actgatacca tgaaacctac ttggagcaga cattgcacag ttttctgtgg taaaaactaa 180
agggtttatt gctaagctgt catcttatgc ttagtatttt ttttttacag tggggaattg 240
ctgagattac attttgttat tcattagata ctttgggata acttgacact gtcttctttt 300
tttcgctttt aattgctatc atcatgcttt tgaaacaaga acacattagt cctcaagtat 360
tacataagct tgcttggtac gcctggtggt ttaaaggact atctttggcc tcaggttcac 420
aagaatgggc aaagtgtttc cttatgttct gtagttctca ataaaagatt gccaggggcc 480
gggtactgtg gctcgcactg taatcccagc actttgggaa gctgaggctg gcgcatcatg 540

AI
cm.t

ttagggcagg tgttcgaaac cagcctgggc aactacta

578

<210> 36
 <211> 583
 <212> DNA
 <213> Homo sapien

<400> 36

tagtagttgc ctgtaatccc agcaactcag gaggctgggg caggagaatc agttgaacct 60
 gggaggcaga agttgtaatt agcaaagatc gcaccattgc acttcagcct gggcaacaag 120
 agtgagattc catctcaaaa acaaaaaaaaa gaaaaagaaa agaaaaggaa aaaacgtata 180
 aaccagcca aaacaaaatg atcattcttt taataagcaa gactaattta atgtgtttat 240
 ttaatcaaag cagttgaatc ttctgagtta ttggtgaaaa taccatgta gtttaatttag 300
 ggttcttact tgggtgaacg tttgatgttc acaggttata aaatggttaa caaggaaaat 360
 gatgcataaa gaatcttata aactactaaa aataaataaa atataaatgg ataggtgcta 420
 tggtatggagt ttttgtgtaa tttaaaatct tgaagtcatt ttggtatgctc attggttgtc 480
 tggtaatctc cattaggaaa aggttatgat atggggaaac tgtttctgga aattgcgga 540
 tgtttctcat ctgtaaaatg ctagtatctc agggcaacta cta 583

<210> 37
 <211> 716
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1) ... (716)
 <223> n = A,T,C or G

<400> 37

gatctactag tcatntggat tctatccatg gcagctaagc ctttctgaat ggattctact 60
 gctttcttgt tctttaatcc agacccttat atatgtttat gttcacaggc agggcaatgt 120
 ttagtgaaaa caattctaaa ttttttattt tgcattttca tgctaatttc cgtcacactc 180
 cagcaggctt cctgggagaa taaggagaaa tacagctaaa gacattgtcc ctgcttactt 240
 acagcctaat ggtatgcaaa accacttcaa taaagtaaca ggaaaagtac taaccaggta 300
 gaatggacca aaactgatat agaaaaatca gaggaagaga ggaacaaata tttactgagt 360
 cctagaatgt acaaggcttt ttaattacat attttatgta aggcctgcaa aaaacagggtg 420
 agtaatcaac atttgtccca ttttacatat aaggaaactg aagcttaaat tgaataattt 480
 aatgcataga ttttatagtt agaccatgtt caggtcctta tggtatactt actagctgta 540
 tgaatatgag aaaataattt tgttattttc ttggcatcag tattttcctc tgcaaaataa 600
 agctaaagtt atttagcaaa cagtcagcat agtgctgat acatagtagg tgctccaaac 660
 atgattacnc tantattngg tattanaaaa atccaatata ggcntggata aaaccg 716

<210> 38
 <211> 688
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1) ... (688)

A1
 Cm.T

<223> n = A,T,C or G

<400> 38

ttctgtccac	atatcatccc	actttaattg	ttaatcagca	aaactttcaa	tgaaaaatca	60
tccattttta	ccaggatcac	accaggaaac	tgaagggtga	ttttttttta	ccttaaaaaa	120
aaaaaaaaa	accaaacaaa	ccaaaacaga	ttaacagcaa	agagttctaa	aaaatttaca	180
tttctcttac	aactgtcatt	cagagaacaa	tagttcttaa	gtctgttaaa	tcttggcatt	240
aacagagaaa	cttgatgaan	agttgtactt	ggaatattgt	ggattttttt	ttttgtctaa	300
tctcccccta	ttgttttgcc	aacagtaatt	taagtttggt	tggaacatcc	ccgtagttga	360
agtgtaaaca	atgtatagga	aggaatatat	gataagatga	tgcatcacat	atgcattaca	420
tgtagggacc	ttcacaactt	catgcactca	gaaaacatgc	ttgaagagga	ggagaggacg	480
gcccagggtc	accatccagg	tgccttgagg	acagagaatg	cagaagtggc	actgttgaaa	540
tttagaagac	catgtgtgaa	tggtttcagg	cctgggatgt	ttgccaccaa	gaagtgcctc	600
cgagaaatth	ctttcccatt	tggaatacag	ggtggcttga	tgggtacggt	gggtgaccca	660
acgaagaaaa	tgaaattctg	ccctttcc				688

<210> 39

<211> 585

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1) ... (585)

<223> n = A,T,C or G

<400> 39

tagtagttgc	cgcnnaccta	aaanttggaa	agcatgatgt	ctaggaaaca	tantaaaata	60
gggtatgcct	atgtgctaca	gagagatggt	agcattttaa	gtgcatantt	ttatgtattt	120
tgacaaatgc	atatncctct	ataatccaca	actgattacg	aagctattac	aattaaaaag	180
tttggccggg	cgtgggtggc	ggtggctgac	gcctgtaatc	ccagcacttt	gggaggccga	240
ggcacgcgga	tcacgaggtc	gggagttcaa	gaccatcctg	gctaacacgg	tgaaagtcca	300
tctctactaa	aaatacgaaa	aaattacccc	ggcgtgggtg	cgggcgcctg	tagtcccagc	360
tactccggag	gctgaggcag	gagaatggcg	tgaaccacag	acacggagct	tgcagtgtgc	420
caacatcacg	tactgcctct	ccagcctggg	ggacaggaac	aagantcccg	tcctcanaaa	480
agaaaaatac	tactnatant	ttcnacttta	ttttaantta	cacagaactn	cctcttggtg	540
cccccttacc	attcatctca	cccacctcct	atagggcacn	nctaa		585

<210> 40

<211> 475

<212> DNA

<213> Homo sapien

<400> 40

tctgtccaca	ccaatcttag	aagctctgaa	aagaatttgt	ctttaaatat	cttttaatag	60
taacatgtat	tttatggacc	aaattgacat	tttcgactgt	tttttccaaa	aaagtcagggt	120
gaatttcagc	acactgagtt	gggaatttct	tatcccagaa	gaccaaccaa	tttcatattt	180
atttaagatt	gattccatac	tccgttttca	aggagaatcc	ctgcagtctc	cttaaaggta	240
gaacaaatac	ttcctatttt	tttttcacca	ttgtgggatt	ggactttaag	aggtgactct	300
aaaaaaacag	agaacaaata	tgtctcagtt	gtattaagca	cggacccata	ttatcatatt	360
cacttaaaaa	aatgatttcc	tgtgcacctt	ttggcaactt	ctcttttcaa	tgtagggaaa	420

AI
cm. x

aacttagtca cctgaaaac ccacaaaata aataaaactt gtagatgtgg acaga 475

<210> 41
 <211> 423
 <212> DNA
 <213> Homo sapien

<400> 41
 taagagggtgta catcggggtgaa gaacgtaggc acatctagag cttagagaag tctggggtag 60
 gaaaaaaatc taagtattta taagggtata ggtaacattt aaaagtaggg ctagctgaca 120
 ttatttagaa agaacacata cggagagata agggcaaagg actaagacca gaggaacact 180
 aatatttagt gatcacttcc attcttggtgta aaaatagtaa cttttaagtt agcttcaagg 240
 aagatttttg gccatgatta gttgtcaaaa gttagttctc ttgggtttat attactaatt 300
 ttgttttaag atccttggtgta gtgctttaat aaagtcatgt tatatcaaac gctctaaaac 360
 attgtagcat gttaaagtgc acaatatact taccatttgt tgtatatggc tgtacctctc 420
 cta 423

<210> 42
 <211> 527
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(527)
 <223> n = A,T,C or G

<400> 42
 tctcctaggc taatgtgtgt gtttctgtaa aagtaaaaag ttaaaaattt taaaaataga 60
 aaaaagctta tagaataaga atatgaagaa agaaaatatt tttgtacatt tgcacaatga 120
 gtttatgttt taagctaagt gttattacaa aagagccaaa aagggtttta aaattaaaac 180
 gtttgtaaag ttacagtacc cttatgttaa tttataattg aagaaagaaa aacttttttt 240
 tataaatgta gtgtagccta agcatagagt atttataaag tctggcagtg ttcaataatg 300
 tcttaggcct tcacattcac tctactgactc acccagagca acttccagtc ctgtaagctc 360
 cattcgtggt aagtgcctta tacaggtgca ccatttattt tacagtattt ttactgtacc 420
 ttctctatgt ttccatatgt ttcgatatac aaataccact gggtactatn gcccnacagg 480
 taattccagt aacacggcct gtatacgtct ggtancccta gngaaga 527

<210> 43
 <211> 331
 <212> DNA
 <213> Homo sapien

<400> 43
 tcttcaacct cgtaggacaa ctctcatatg cctgggcact attttttaggt tactaccttg 60
 gctgcccttc ttttaagaaaa aaaaaagaag aaaaaagaac ttttccacaa gtttctcttc 120
 ctctagtgtg aaaatttagag aaatcatgtt tttatttttg tgttatttca gatcacaat 180
 tcaaacactt gtaaacatta agcttctgtt caatccccctg ggaagaggat tcattctgat 240
 atttacgggt caaaagaagt tgtaatatgt tgcttgggaac acagagaacc agttattaac 300
 ttcttactac tattatataa taaataataa c 331

AI
 Cm. x

<210> 44
 <211> 592
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(592)
 <223> n = A,T,C or G

<400> 44

ggcttagtag	ttgccaggca	aaatarcgtt	gattctcctc	aggagccacc	cccaacaccc	60
ctgtttgctt	ctagacctat	acctagacta	aagtcccagc	agacccttag	agggtgagggtt	120
cagagtgacc	cttgaggaga	tgtgctacac	tagaaaagaa	ctgcttgagt	tttctaattt	180
atataagcag	aaatctggag	aagagtcata	ggaatggata	ttaaggggtgt	gagataatgg	240
cggaaggaat	atagagttgg	atcaggctgg	acttattgat	ttgaaccac	taagtagaga	300
ttctgctttt	gatgttgcag	ctcagggagt	taaaaaagg	tttaatgggt	ctaatagttt	360
atttgcttgg	ttagctgaaa	tatggataaa	agatggccca	ctgtgagcaa	gctggaaatg	420
cctgatctct	ctcagtttaa	tgtagaggaa	gggatccaaa	agtttaggga	ganttggatg	480
ctggraktgg	attggtcact	ttgrgacct	cccwtcccag	ctgggagggt	ccagaagata	540
cacccttgac	caacgctttg	cgaaatggat	ttgtgatggc	ggcaactact	aa	592

<210> 45
 <211> 567
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(567)
 <223> n = A,T,C or G

<400> 45

ggcttagtag	ttgccattgc	gagtgccttc	tcaacgagcg	ttgaacatgg	cggattgtct	60
agattcaacg	gatttgagtt	ttaccagcaa	agcgaaccaa	gcgcggccca	gagaattatg	120
ggttgggttg	ctttgaaaag	atggaaatcc	tgtaggccta	gtcagaaaag	ccttcttgca	180
gaacagttgg	ttctcgggcg	aacgctcatc	aagatgccca	ttggaaaggc	tagcgtgtat	240
ttgggagagc	ctgatagcgt	gtcttctgat	gatgtttgtg	cttggacagt	gacaaaagat	300
atgcaaagca	agtccgaact	agacgtcaag	cttcgtgagc	aaattattgt	agactcctac	360
ttatactgtg	aggaatgata	gccaagggtg	gggactttta	gactaagggtg	gtttgtactt	420
gcgccgatga	tcccaggcag	aaagamctga	tcgctagttt	tatacgggca	actactaagc	480
cgaattccag	cacactggcg	gccgttacta	attggatccg	anctcggtac	cagcttgatg	540
catascctga	gttwtctata	ntgtcnc				567

<210> 46
 <211> 908
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature

AI
 cm'x

<222> (1)...(908)

<223> n = A,T,C or G

<400> 46

gagcgaaaaga ccgagggcag ngntangng cgangaagcg gagagggcca aaaagcaacc 60
gctttccccg gggggtgccg attcattaag gcaggtggag gacaggtttc ccgatggaag 120
gcggcagggg cgcaagcaat taatgtgagt aggccattca ttagcaccgc ggcttaacat 180
ttaagcttcg gggtggtatg tgggtggaat tgtgagcggg taacaatttc acacaggaaa 240
cagctatgac catgattacg ccaagctatt taggtgacat tatagaataa ctcaagttat 300
gcatcaagct tggtagcgag ttcggatcca ctagtaacgg ccgccagtgt gtggaattcg 360
gcttagtagt tgccgaccat ggagtgtctac ctaggctaga atacctgagy tcctccctag 420
cctcactcac attaaattgt atcttttcta ctagtagtgt cctcagcgcc ttatttctgc 480
tggacwatcg ataaattaat cctgatagga tgatagcagg agattaatta ctgagagtat 540
gttaatgtgt catccctcct atataacgta tttgcatttt aatggagcaa ttctggagat 600
aatccctgaa ggcaaaaggaa tgaatcttga ggggtgagaaa gccagaatca gtgtccagct 660
gcagttgtgg gagaagggtga tattatgtat gtctcagaag tgacaccata tgggcaacta 720
ctaagcccga attccagcac actggcgggc gttactaatg gatccgagct cggtaccaag 780
cttgatgcat agcttgagta tctatagtgt cactaaatag cctggcggtta tcatgggtcat 840
agctgtttcc tgtgtgaaat tggtatccgc tcccaattcc cccaccata cgagccggaa 900
cataaagt 908

<210> 47

<211> 480

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(480)

<223> n = A,T,C or G

<400> 47

tgccaacaag gaaagtttta aatttccctt tgaggattct tggatgatcat caaattcagt 60
ggtttttaag gttgttttct gtcaaataac tctaacttta agccaaacag tatatggaag 120
cacagataka atattacaca gataaaagag gagttgatct aaagtaraga tagttggggg 180
ctttaatttc tggaacctag gtctcccatc cttcttctgt gctgaggaac ttcttggaa 240
cggggattct aaagttcttt ggaagacagt ttgaaaacca ccatgttgtt ctcatgacct 300
ttatttttaa aaagtaggtg aacattttga gagagaaaag ggcttggttg agatgaagtc 360
ccccccccc cttttttttt ttttagctga aatagatacc ctatgttnaa rgaarggatt 420
attatttacc atgccaytar scacatgctc tttgatgggc nyctccstac cctccttaag 480

<210> 48

<211> 591

<212> DNA

<213> Homo sapien

<400> 48

aagagggtac cgagtggaat ttccgcttca ctagtctggt gtggctagtc ggtttcgtgg 60
tggccaacat tacgaacttc caactcaacc gttcttggtg gttcaagcgg gaggtaaccgc 120
gaggatggtg gcgtgaattc tggcctttct ttgccgtggg atcggtagcc gccatcatcg 180
gtatgtttat caagatcttc ttactaacc cgacctctcc gatttacctg cccgagccgt 240

AI
cm.f

ggtttaacga ggggaggggg atccagtcac gcgagtactg gtcccagatc ttcgccatcg 300
 tcgtgacaat gcctatcaac ttcgtcgtca ataagttgtg gaccttccga acggtgaagc 360
 actccgaaaa cgtcgggtgg ctgctgtgcg gtgactccca aaatcttgat aacaacaagg 420
 taaccgaatc gcgctaagga acccggcat ctgggtact ctgcatatgc gtaccctta 480
 agccgaatc cagcactg gcggccgtta ctaattggat ccgaactccg taaccaagcc 540
 tgatgcgtaa cttgagttat tctatagtgt ccctaaaata acctggcggt a 591

<210> 49

<211> 454

<212> DNA

<213> Homo sapien

<400> 49

aagagggtag ctgccttgaa atttaaagt ctaaggaaar tgggagatga ttaagagttg 60
 gtgtggcyta gtcacaccaa aatgtattta ttacatcctg ctcccttcta gttgacagga 120
 aagaaagctg ctgtggggaa aggaggata aatactgaag ggatttacta aacaaatgtc 180
 catcacagag ttttcctttt ttttttttg agacagagtc ttgctctgtc acccaggctg 240
 gaatgaagwg gtatgatctc agttgaatgc aacctctacc tctaggttc aagcgattct 300
 catgctcag cctcctgagc agctgggact ataggcgcat gctaccatgc caggctaatt 360
 tttatatttt tattagagac ggggtgttgc catgttgcc aggcaggtct cgaactcctg 420
 ggctcagat gatctgcccc accgtaccct cttta 454

<210> 50

<211> 463

<212> DNA

<213> Homo sapien

<400> 50

aagagggtag caaaaaaag aaaaaggaaa aaaagaaaaa caacttgtat aaggctttct 60
 gctgcataca gctttttttt tttaaataaa tgggtccaac aaatgttttt gcattcacac 120
 caattgctgg ttttgaaatc gtactcttca aaggattttg tgcagatcaa tccaatagtg 180
 atgccccgta ggttttgtgg actgcccacg ttgtctacct tctcatgtag gagccattga 240
 gagactgttt ggacatgcct gtgttcatgt agcctgtatg tccgggggccc gtgtacatca 300
 tgttaccgtg ggggtggggtc tgcattggct gctgggcata tggctgggtg cccatcatgc 360
 ccatctgcat ctgcataggg tattggggcg tttgatccat atagccatga ttgctgtggt 420
 agccactggt catcattggc tgggacatgc tgttaccctc tta 463

<210> 51

<211> 399

<212> DNA

<213> Homo sapien

<400> 51

cttcaacctc ccaaagtgtc gggattacag gactgagcca ccacgtcag cctaagcctc 60
 tttttcacta ccctctaagc gatctaccac agtcatgagg ggctaaagag cagtgcattt 120
 tgattacaat aatggaactt agatttatta attacaatt tttccttagc atgttggttc 180
 cataattatt aagagtatgg acttacttag aaatgagctt tcattttaag aatttcatct 240
 ttgaccttct ctattagtct gagcagtatg acactatacg tattttattt aactaaccta 300
 ccttgagcta ttacttttta aaaggctata tacatgaatg tgtattgtca actgtaaagc 360
 cccacagtat ttaattatat catgatgtct ttgaggttg 399

AI
Cm.t

<210> 52
 <211> 392
 <212> DNA
 <213> Homo sapien

<400> 52
 cttcaacctc aatcaacctt ggtaattgat aaaatcatca cttaactttc tgatataatg 60
 gcaataatta tctgagaaaa aaaagtgggtg aaagattaaa cttgcatttc tctcagaatc 120
 ttgaaggata tttgaataat tcaaaagcgg aatcagtagt atcagccgaa gaaactcact 180
 tagctagaac gttggaccca tggatctaag tccctgccct tccactaacc agctgattgg 240
 ttttgtgtaa acctcctaca cgcttgggct tggtcgcctc atttgtcaaa gtaaaggctg 300
 aaataggaag ataatgaacc gtgtcttttt ggtctctttt ccatccatta ctctgatttt 360
 acaaagaggc ctgtattccc ctggtgaggt tg 392

<210> 53
 <211> 179
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(179)
 <223> n = A,T,C or G

<400> 53
 ttcgggtgat gcctcctcag gctacagtga agactggatt acagaaaggt gccagcgaga 60
 tttcagattc ctgtaaacct ctaaagaaaa ggagtcgcgc ctcaactgat gtagaaatga 120
 ctagttcagc atacngagac acntctgact ccgattctag aggactgagt gacctgcan 179

<210> 54
 <211> 112
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(112)
 <223> n = A,T,C or G

<400> 54
 ttcgggtgat gcctcctcag gctacatcat natagaagca aagtagaana atcnngtttg 60
 tgcattttcc cacanacaaa attcaaatga ntggaagaaa ttggganagt at 112

<210> 55
 <211> 225
 <212> DNA
 <213> Homo sapien

<400> 55
 tgagcttccg cttctgacaa ctcaatagat aatcaaagga caactttaac agggattcac 60
 aaaggagtat atccaaatgc caataaacat ataaaaagga attcagcttc atcatcatca 120

AI
 cm.t

gaagwatgca aattaaaacc ataatgagaa accactatgt ccactagaa tagataaaat 180
 cttaaaagac tggtaaaacc aagtgttggg aaggcaagag gagca 225

<210> 56
 <211> 175
 <212> DNA
 <213> Homo sapien

<400> 56
 gctcctcttg ccttaccaac acattctcaa aaacctgtta gagtcctaag cattctcctg 60
 ttagtattgg gattttaccc ctgtcctata aagatgttat gtaccaaaaa tgaagtggag 120
 ggccataccc tgaggggagg gagggatctc tagtgttgtc agaagcggaa gctca 175

<210> 57
 <211> 223
 <212> DNA
 <213> Homo sapien

<400> 57
 agccatttac caccatgga tgaatggatt ttgtaattct agctgttgta ttttgtgaat 60
 ttgttaattt tgttgTTTTT ctgtgaaaca catatttg atattggagg taaaggagtg 120
 tcccagttgc tcttggtcac tccctttata gccattactg tcttgTTTTt tgtaactcag 180
 gttaggTTTT ggtctctctt gctccactgc aaaaaaaaaa aaa 223

<210> 58
 <211> 211
 <212> DNA
 <213> Homo sapien

<400> 58
 gttcgaaggt gaactgttag gtagcggatc tcacaactgg ggaactgtca aagacgaatt 60
 aactgacttg gatcaatcaa atgtgactga ggaaacacct gaaggtgaag aacatcatcc 120
 agtggcagac actgaaaata aggagaatga agttgaagag gtaaaaggagg aggggtccaa 180
 agagatgact ttggatgggt ggtaaattggc t 211

<210> 59
 <211> 208
 <212> DNA
 <213> Homo sapien

<400> 59
 gctcctcttg ccttaccaac tttgcacca tcatcaacca tgtggccagg tttgcagccc 60
 aggtgcaca tcaggggact gctcgcaat acttcattgct gttgctgctg actgatggg 120
 ctgtgacgga tgtggaagcc acacgtgagg ctgtgggtgctg tgcctcgaac ctgcccattg 180
 cagtgatcat tatgggtggg aaatggct 208

<210> 60
 <211> 171
 <212> DNA
 <213> Homo sapien

AI
 Unit

<400> 60
agccatttac caccataact aaattctagt tcaaactcca acttcttcca taaaacatct 60
aaccactgac accagttggc aatagcttct tcttcttta acctcttaga gtatttatgg 120
tcaatgccac acatttctgc aactgaataa agttggtaag gcaagaggag c 171

<210> 61
<211> 134
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(134)
<223> n = A,T,C or G

Al
ent
<400> 61
cgggtgatgc ctctcaggc tttgggtgtgt ccactcnact cactggcctc ttctccagca 60
actggtgaan atgtctcan gaaaancncc acacgngct caggggtgggg tgggaancat 120
canaatcatc nggc 134

<210> 62
<211> 145
<212> DNA
<213> Homo sapien

<400> 62
agagggtaca tatgcaacag tatataaagg aagaagtgca ctgagaggaa cttcatcaag 60
gccatttaat caataagtga tagagtcaag gctcaacca ggtgtgacgg attccaggtc 120
ccaagctcct tactggtacc ctctt 145

<210> 63
<211> 297
<212> DNA
<213> Homo sapien

<400> 63
tgactgaga ggaattcaaa gggtttatgc caaagaacaa accagtcttc tgcagcctaa 60
ctcatttgtt tttgggctgc gaagccatgt agagggcgat caggcagtag atggtccttc 120
ccacagtcag cgccatgggt gtccggtaaa gcatTTgggtc aggcaggcct cgtttcaggt 180
agacgggcac acatcagctt tctggaaaaa cttttgtagc tctggagctt tgtttttccc 240
agcataatca tacactgtgg aatcggaggt cagtttagtt ggtaaggcaa gaggagc 297

<210> 64
<211> 300
<212> DNA
<213> Homo sapien

<400> 64
gcaactgagag gaacttccaa tactatgttg aataggagtg gtgagagagg gcatccttgt 60
cttgtgccgg tttcaaagg gaatgcttcc agcttttgcc cattcagtat aatattaaag 120
aatgttttac cattttctgt cttgcctgtt tttctgtgtt tttgttggtc tcttcattct 180

ccatttttag gcctttacat gtttaggaata tatttctttt aatgatactt cacctttggt 240
atcttttgtg agactctact catagtgtga taagcactgg gttggtaagg caagaggagc 300

<210> 65
<211> 203
<212> DNA
<213> Homo sapien

<400> 65
gctcctcttg ccttaccac tcacccagta tgtcagcaat tttatcrgct ttacctacga 60
aacagcctgt atccaaacac ttaacacact cacctgaaaa gttcaggcaa caatcgctt 120
ctcatgggtc tctctgctcc agttctgaac ctttctcttt tcctagaaca tgcatttarg 180
tcgatagaag ttcctctcag tgc 203

<210> 66
<211> 344
<212> DNA
<213> Homo sapien

<400> 66
tacggggacc cctgcattga gaaagcgaga ctactctga agctgaaatg ctgttgcctt 60
tgcagtgtg gtagcaggag ttctgtgctt tgtgggctaa ggctcctgga tgaccttga 120
catggagaag gcagagttgt gtgccccttc tcatggcctc gtcaaggcat catggactgc 180
cacacacaaa atgccgtttt tattaacgac atgaaattga aggagagaac acaattcact 240
gatgtggctc gtaaccatgg atatgggtcac atacagaggt gtgattatgt aaaggttaat 300
tccaccacc tcatgtggaa actagcctca atgcaggggt ccca 344

<210> 67
<211> 157
<212> DNA
<213> Homo sapien

<400> 67
gcactgagag gaacttcgta gggaggttga actggctgct gaggaggggg aacaacaggg 60
taaccagact gatagccatt ggatggataa tatggtggtt gaggaggagc actacttata 120
gcagaggggtt gtgtatagcc tgaggaggca tcaccgg 157

<210> 68
<211> 137
<212> DNA
<213> Homo sapien

<400> 68
gcactgagag gaacttctag aaagtgaaag tctagacata aaataaaata aaaattttaa 60
actcaggaga gacagcccag cacggtggct cacgcctgta atcccagaac tttgggagcc 120
tgaggaggca tcaccgg 137

<210> 69
<211> 137
<212> DNA
<213> Homo sapien

AI
Cm.T

<400> 69
 cgggtgatgc ctctcaggc tgtatTTTga agactatcga ctggacttct tatcaactga 60
 agaatccgtt aaaaatacca gttgtattat ttctacctgt caaaatccat ttcaaatgtt 120
 gaagttcctc tcagtgc 137

<210> 70
 <211> 220
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(220)
 <223> n = A,T,C or G

AI
 cm.t
 <400> 70
 agcatgttga gccagacac gcaatctgaa tgagtgtgca cctcaagtaa atgtctacac 60
 gctgcttggc ctgacatggc acaccatcnc gtggagggca casctctgct cngcctacwa 120
 cgagggcant ctcatwgaca ggtccaccc accaaactgc aagaggctca nnaagtactr 180
 ccagggmtmya sggacmasgg tgggaytyca ycacwcatct 220

<210> 71
 <211> 353
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(353)
 <223> n = A,T,C or G

<400> 71
 cgttagggtc tctatccact gctaaacat acacctgggt aaacagggac catttaacat 60
 tcccanctaa atatgccaa tgacttcaca tgtttatctt aaagatgtcc aaaacgcaac 120
 tgattttctc ccctaaacct gtgatgggtg gatgattaan cctgagtggc ctacagcaag 180
 ttaagtgcaa ggtgctaaat gaangtgacc tgagatacag catctacaag gcagtacctc 240
 tcaacncagg gcaactttgc ttctcanagg gcatttagca gtgtctgaag taatttctgt 300
 attacaactc acggggcggg ggggtgaatat ctantggana gnagacccta acg 353

<210> 72
 <211> 343
 <212> DNA
 <213> Homo sapien

<400> 72
 gcactgagag gaacttccaa tacyatkac agagtgaaca rgcarccyac agaacaggag 60
 aaaatgttyg caatctctcc atctgacaaa aggctaatat ccagawtcta awaggaactt 120
 aaacaaattt atgagaaaag aacaracaac ctcaawcaaaa agtgggtgaa ggawatgcts 180
 aaargaagac atytattcag ccagtaaaca yatgaaaaaa aggctcatsa tcactgawca 240
 ttagagaaat gcaaatcaaa accacaatga gataccatct yayrccagtt agaayggtga 300

tcattaaaaar stcaggaaac aacagatgct ggacaagggtg tca

343

<210> 73
 <211> 321
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(321)
 <223> n = A,T,C or G

<400> 73

gcactgagag gaacttcaga gagagagaga gagttccacc ctgtacttgg ggagagaaac 60
 agaagggtgag aaagtctttg gttctgaagc agcttctaag atcttttcat ttgcttcatt 120
 tcaaagttcc catgctgcc aagtgccatc ctttggggta ctgttttctg agctccagtg 180
 ataactcatt tatacaaggg agatacccag aaaaaaagtg agcaaattctt aaaaagggtg 240
 cttgagttca gccttaaata ccatcttgaa atgacacaga gaaagaanga tgttgggtgg 300
 gagtggatag agaccctaac g 321

<210> 74
 <211> 321
 <212> DNA
 <213> Homo sapien

<400> 74

gcactgagag gaacttcaga gagagagaga gagttccacc ctgtacttgg ggagagaaac 60
 agaagggtgag aaagtctttg gttctgaagc agcttctaag atcttttcat ttgcttcatt 120
 tcaaagttcc catgctgcc aagtgccatc ctttggggta ctgttttctg agctccagtg 180
 ataactcatt tatacaaggg agatacccag aaaaaaagtg agcaaattctt aaaaagggtg 240
 cttgagttca gyccttaaata ccatcttgaa atgamacaga gaaagaagga tgttgggtgg 300
 gagtggatag agaccctaac g 321

<210> 75
 <211> 317
 <212> DNA
 <213> Homo sapien

<400> 75

gcactgagag gaacttcac atgcactgag aaatgcatgt tcacaaggac tgaagtctgg 60
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 agtcagataa ccttagcttc ctcatatgca aaatgagaat gaaaagtact catcgctgaa 180
 ttgttttgag gattagaaaa acatctggca tgcagtagaa attcaattag tattcatttt 240
 cattcttcta aattaaacaa ataggatttt tagtggtgga acttcagaca ccagaaatgg 300
 gagtggatag agaccct 317

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 <211> 244
 <212> DNA
 <213> Homo sapien

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ttgccatggt gggttctgc acccatcagt ccatcatcta cattagggtat ttctccta	180
gctatccctc ccctagcccc ttacaccccc aacaggctct agtgtgtgaa gttcctctca	240
gtgc	244

<210> 77

<211> 254

<212> DNA

<213> Homo sapien

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gataataaag gttaatatta ataatgattt attttaaggc attcccraat ttgcataatt	180
ctccttttgg agataccctt ttatctccag tgcaagtctg gatcaaagtg atasamagaa	240
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<211> 355

<212> DNA

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<220>

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<223> n = A,T,C or G

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cctgagggga cgcaggacc ttagtaccct cagaatcttc acaacgggag atggcactgg	180
attgantccc antgacacca gagacacccc aaccaccagn atatcantat attgatgtag	240
ttcctgtaga nggccccctt gtggaggaaa gctccatnag ttggtcacat tcaacaggat	300
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<210> 79

<211> 406

<212> DNA

<213> Homo sapien

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ccccagtgc agctaggatg tgcattctcc agccatcaag agactgagtc aagttgttcc	180
ttaagtcaga acagcagact cagctctgac attctgattc gaatgacact gttcaggaat	240
cggaaatctg tcgattagac tggacagctt gtggcaagtg aatttgccctg taacaagcca	300
gatttttttaa aatttatatt gtaaataatg tgtgtgtgtg tgtgtgtata tatatatata	360
tgtacagtta tctaagttaa tttaaaagtt gtttggtagc ctctta	406

AI
mit

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 <211> 327
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 tgtaggggtc atggtagggg taaaaggagg gcaatttcta gatcaaataa taagaaggta 180
 atagctacta agaagaattt tatggagaaa gggacgcggg cgggggatat agggtcgaag 240
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 ataattatta gtagtaagcc taggaga 327

<210> 81
 <211> 318
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 catgcttttt atgttttgtc tgacataaac tcttatcaga gccctttgca cacagggtt 180
 caataaatat taacacagtc tacattttatt tggatgaatat tgcatatctg ctgtactgaa 240
 agcacattaa gtaacaaagg caagtgagaa gaatgaaaag cactactcac aacagttatc 300
 atgattgcgc atagacta 318

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 <211> 338
 <212> DNA
 <213> Homo sapien

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 ctgatcaaat atcactctcc tacttacagg actcaacata ctagtcacag ccctatactc 180
 cctctacata ttaccacaa cacaatgggg ctactcacc caccacatta acaacataaa 240
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 atccctcaac ccgacatca ttaccgggtt ttctctct 338

<210> 83
 <211> 111
 <212> DNA
 <213> Homo sapien

<400> 83
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 atagactttg aacaaaaagg aacattttgct ggcctgagga ggcacaccc g 111

<210> 84
 <211> 224
 <212> DNA

AI
 unit

<213> Homo sapien

<400> 84

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tgaggtggat tcacgagttg cggacaactc ctttgatgcc aagcgaggtg cagccggaga	180
ctggggagag cgagccaatc aggttttgaa gttcctctca gtgc	224

<210> 85

<211> 348

<212> DNA

<213> Homo sapien

<400> 85

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gagcagactt gtaacactct twttgtggaa ttgcaagtg gagatttcag scgctttgaa	180
gtsaaaggta gaaaaggaaa tatcttccta taaaaactag acagaatgat tctcagaaac	240
tcctttgtga tgtgtgctgt caactcacag agtttaacct ttcwtttcat agaagcagtt	300
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<210> 86

<211> 293

<212> DNA

<213> Homo sapien

<400> 86

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tttgwggycw wysktmgaaw mggrrwatatc ttcwyatmra amctagacag aaksattctc	180
akaawstyyy ytgtgawgws tgcrttcaac tcacagagkt kaacmwtct kytsatrgag	240
cagttwkgaa actctmtttc tttggattct gcaagtggat agagacccta acg	293

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<213> Artificial Sequence

<220>

<223> Primer for amplification from breast tumor cDNA

<400> 87

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<210> 88

<211> 10

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer for amplification from breast tumor cDNA

AI
Em.t

<400> 88
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 <210> 89
 <211> 11
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 <220>
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 <400> 89
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 <210> 91
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 <210> 92
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 <210> 93
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Cm.T

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<210> 99
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<220>
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<400> 100
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 <210> 104
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 <223> Primer for amplification from breast tumor cDNA
 <400> 104
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 <210> 105
 <211> 20
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 <223> Primer for amplification from breast tumor cDNA
 <400> 105
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 <211> 20
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 <400> 106
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 <210> 107
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AI
Cm' +

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<210> 108
 <211> 20
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<210> 110
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<210> 111
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<400> 111

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<400> 112
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<210> 113
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<210> 115
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<210> 122
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<400> 122
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<220>
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AI
Unit

<220>
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<400> 130
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14

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<212> PRT
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<220>
<223> Predicited Th Motifs (B-cell epitopes)

AI
cm.t

<400> 131
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1 5 10 15
Gly Ile

<210> 132
<211> 22
<212> PRT
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<220>
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<221> VARIANT
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<400> 132
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1 5 10 15
Val Gln Gly His Asp Glu
20

<210> 133
<211> 23
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<213> Artificial Sequence

<220>
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1 5 10 15
Thr Pro Phe Asp Leu Ser Ala

20

<210> 134
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 <212> PRT
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<220>
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 1 5

<210> 135
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 <212> PRT
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<220>
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 1 5

<210> 136
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<220>
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<221> VARIANT
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 <223> Xaa = Any Amino Acid

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<210> 137
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 <213> Artificial Sequence

<220>
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<400> 137

AI
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<220>
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1 5

<210> 139
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<212> PRT
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1 5

<210> 140
<211> 9
<212> PRT
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1 5

<210> 141
<211> 9388
<212> DNA
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gcttgaagat aatatgcttg ttaaaaagtca tcaccattct ctaatctcaa gtaccaggg 300
acacaatata ctgcggaagg ccgcagggac ctctgtctag gaaagccagg tattgtccaa 360

AI
Commit

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ttttaagga	agtaagtcc	tggttttgat	atcttagtag	tgtaatgccc	aacctggttt	2160
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aatggacttt	taatttgtct	caaagtgtgg	cgttttctct	aactcgctca	ggtacgacat	2700
ttggaggccc	cagcgagaaa	cgtcaccggg	agaaacgtca	ccgggcgaga	gccggggccc	2760
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AI
em.t

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AI
cm.t

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 <212> DNA
 <213> Homo sapien

<400> 142
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 cactatTTTT agctaccttg tcaagctaatt ggtaaagaa cacttttggg ttacacttgt 180
 tgggtcatag aagttgcttt ccgccatcac gcaataagtt tgtgtgtaat cagaaggagt 240
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<210> 143
 <211> 402
 <212> DNA
 <213> Homo sapien

<400> 143
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 agcctgttag actagtctat gcacatggct ctgggtcaact accgctctct ctttctcca 180
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 gaggctagcc agtgagatct gcacacact gctcgactta ca 402

<210> 144
 <211> 224
 <212> DNA
 <213> Homo sapien

<400> 144
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 aaggaagaaa ggagaaaaaa gggcatcatc ccggttcga agggtcaggg aggaggaaat 120
 tgagggtgat tcacgagttg cggacaactc ctttgatgcc aagcgagggtg cagccggaga 180
 ctggggagag cgagccaatc aggttttgaa gttcctctca gtgc 224

<210> 145
 <211> 111
 <212> DNA
 <213> Homo sapien

<400> 145
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 atagactttg aacaaaaagg aacatttgct ggcctgagga ggcacaccc g 111

<210> 146
 <211> 585
 <212> DNA
 <213> Homo sapien

AI
 Em.t

<400> 146

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cagaggatgc	tttgagaaa	cttcataaat	atatgcagg	gattccttat	ttcctcctag	180
aaatttagtg	atatttgaaa	taatgcccaa	acttaatttt	ctcctgagga	aaactattct	240
acattactta	agtaaggcat	tatgaaaagt	ttcttttttag	gtatagtttt	tcctaattgg	300
gtttgacatt	gcttcatagt	gcctctgttt	ttgtccataa	tcgaaagtaa	agatagctgt	360
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cctggtggtt	tttaaattat	tgttgctact	ataattgagc	taattataaa	aacctttttg	480
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<210> 147

<211> 579

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1) ... (579)

<223> n = A,T,C or G

<400> 147

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<210> 148

<211> 249

<212> DNA

<213> Homo sapien

<400> 148

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aaataaatct	ttgtggtttc	agatattttg	ctatagcaga	tcaggctgac	taagagaaac	180
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aaggtgtca						249

<210> 149

<211> 255

<212> DNA

<213> Homo sapien

AI
cm.t

<400> 149
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 ctggacaagg tgtca 255

<210> 150
 <211> 318
 <212> DNA
 <213> Homo sapien

<400> 150
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<210> 151
 <211> 323
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)... (323)
 <223> n = A,T,C or G

<400> 151
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 ctccacattg ttgcagcnat aat 323

<210> 152
 <211> 311
 <212> DNA
 <213> Homo sapien

<400> 152
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 gtctctaagg ttgattttgt tcataaattt catgccctga atgccttgct tgcctcaccc 180
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 cagagggtca g 311

AI
 Cm't

<210> 153
 <211> 332
 <212> DNA
 <213> Homo sapien

<400> 153
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 gttgatatct ggctgtcctt ttataaatgc agagtgggaa ctttccctac catgtttgat 180
 aaatgttgtc caggctccat tgccaataat gtgttggtcca aaatgcctgt ttagttttta 240
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 agtagtagcg gtggtcagcc tatggaatct tg 332

<210> 154
 <211> 345
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)... (345)
 <223> n = A,T,C or G

<400> 154
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 aacttgggta aggaacagga atgtgggtcan cctatggaat cttga 345

<210> 155
 <211> 295
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)... (295)
 <223> n = A,T,C or G

<400> 155
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<210> 156
 <211> 406

AI
 cont

<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(406)
<223> n = A,T,C or G

<400> 156
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<210> 157
<211> 208
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(208)
<223> n = A,T,C or G

<400> 157
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anggtanggg tgaggagaag gggagaga 208

<210> 158
<211> 547
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(547)
<223> n = A,T,C or G

<400> 158
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agggtttcat catgttgccc tggctggtct caaactcctg acctcaagca atgtgcccac 180
ctcagcctcc caaagtgtg ggattacagg cataagccac catgcccagt ccatntttaa 240
tctttcctac cacattctta ccacacttct ttttatgttt agatacataa atgcttacca 300
ttatgatata attgccaca gtattaagac agtaacatgc tgcacagggt tgtagcctag 360
gaacagtagg caataccaca tagcttaggt gtgtggtaga ctataccatc taggtttgtg 420

AI
Cm't

taagttacac tttatgctgt ttacacaatg acaaaacccat ctaatgatgc atttctcaga	480
atgtatcctt gtcagtaagc tatgatgtac agggaacact gccaaggac acagatattg	540
tacctgt	547

<210> 159

<211> 203

<212> DNA

<213> Homo sapien

<400> 159

gctcctcttg ccttaccaac tcaccagta tgtcagcaat tttatcrgct ttacctacga	60
aacagcctgt atccaaacac ttaacacact cacctgaaaa gtccaggcaa caatcgctt	120
ctcatgggtc tctctgctcc agttctgaac ctttctcttt tctagaaca tgcatttarg	180
tcgatagaag ttcctctcag tgc	203

<210> 160

<211> 402

<212> DNA

<213> Homo sapien

<400> 160

tgtaagtcca gcagtgtgat ggggtggaaca ggggtgtaag cagtaattgc aaactgtatt	60
taaacaataa taataatatt tagcatttat agagcacttt atatcttcaa agtacttgca	120
aacattayct aattaaatac cctctctgat tataatctgg atacaaatgc acttaaactc	180
aggacagggt catgagaraa gtatgcattt gaaagttggg gctagctatg ctttaaaaac	240
ctatacaatg atggggraagt tagagttcag attctgttgg actgtttttg tgcatttcag	300
ttcagcctga tggcagaatt agatcatatc tgcactcgat gactytgctt gataacttat	360
cactgaaatc tgagtgttga tcatcacact gctcgactta ca	402

<210> 161

<211> 193

<212> DNA

<213> Homo sapien

<400> 161

agcatgttga gccagacac tgaccaggag aaaaaccaac caatagaaac acgcccagac	60
actgaccagg agaaaaacca accaataaaa acaggcccgg acataagaca aataataaaa	120
ttagcggaca aggacatgaa aacagctatt gtaagagcgg atatagtggg gtgtgtctgg	180
gctcaacatg cta	193

<210> 162

<211> 147

<212> DNA

<213> Homo sapien

<400> 162

tgttgagccc agacactgac caggagaaaa accaaccaat aaaaacaggc ccggacataa	60
gacaaataat aaaattagcg gacaaggaca tgaaaacagc tattgtaaga gcggatatag	120
tggtgtgtgt ctgggctcaa catgcta	147

<210> 163

AI
Cm.t

<211> 294
 <212> DNA
 <213> Homo sapien

<400> 163
 tagcatgttg agcccagaca caaatctttc cttaagcaat aaatcatttc tgcataatggt 60
 tttaaaacca cagctaagcc atgattattc aaaaggacta ttgtattggg tatttttgatt 120
 tgggttctta tctccctcac attatcttca tttctatcat tgacctctta tcccagagac 180
 tctcaaactt ttatgttata caaatcacat tctgtctcaa aaaatatctc acccatttct 240
 cttctgtttc tgcgtgtgta tgtgtgtgtg tgtgtgtctg ggctcaacat gcta 294

<210> 164
 <211> 412
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(412)
 <223> n = A,T,C or G

<400> 164
 cgggattggc tttgagctgc agatgctgcc tgtgaccgca cccggcgtgg aacagaaagc 60
 cacctggctg caagtgcgcc agagccgccc tgactacgtg ctgctgtggg gctggggcgt 120
 gatgaactcc accgccctga aggaagccca ggccaccgga taccgccgca acaagatgta 180
 cggcgtgtgg tgggcccgtg cggagcccga tgtgcgtgac gtgggcgaag gcgccaaggg 240
 ctacaacgcg ctggctctga acggctacgg cagcgagtc aaggtgatcc angacatcct 300
 gaaacacgtg cacgacaagg gccagggcac gggggccaaa gacgaagtgg gctcgggtgct 360
 gtacacccgc ggcgtgatca tccagatgct ggacaagggtg tcaatcacta at 412

<210> 165
 <211> 361
 <212> DNA
 <213> Homo sapien

<400> 165
 ttgacacctt gtccagcatc tgcattctgat gagagcctca gatggctacc actaatggca 60
 gaaggcaaag gagaacaggc attgtatggc aagaaaggaa gaaagagaga ggggagaaaag 120
 gtgctagggt cttttcaaca accagttctt gatggaactg agagtaagag ctcaaggcca 180
 ggtgtggtga ctccaaccag taatcccaac attttaggag gctgaggcag gcagatgtct 240
 tgaccccatg agtttgtgac cagcctgaac aacatcatga gactccatct ctacaataat 300
 taaaaaatt aatcaggcat tgtggtatgc cctgtagtcc cagatgctgg acaagggtgtc 360
 a 361

<210> 166
 <211> 427
 <212> DNA
 <213> Homo sapien

<400> 166
 twgactgact catgtcccct acaccaact atcttctcca ggtggccagg catgatagaa 60

AI
 cm't

tctgatcctg	acttagggga	atattttctt	tttacttccc	atcttgattc	cctgcgggtg	120
agtttctctg	ttcagggtaa	gaaaggagct	caggccaaag	taatgaaca	atccatcctc	180
acagacgtac	agaataagag	aacwtggacw	tagccagcag	aacmcaaktg	aaamcagaac	240
mcttamctag	gatracaamc	mccrraratar	ktgcycmcmc	wtataataga	aaccaaactt	300
gtatctaatt	aaatatttat	ccacygtcag	ggcattagt	gttttgataa	atacgctttg	360
gctaggattc	ctgagggttag	aatggaaraa	caattgcamc	gagggtaggg	gacatgagtc	420
aktctaa						427

<210> 167
 <211> 500
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1) ... (500)
 <223> n = A,T,C or G

aacgtcgcat	gctccccgcc	gccatggccg	cgggatagac	tgactcatgt	cccctaagat	60
agaggagaca	cctgctaggt	gtaaggagaa	gatgggttag	tctacggagg	ctccaggggtg	120
ggagtagttc	cctgctaagg	gagggtagac	tgttcaacct	gttctctgctc	cggcctccac	180
tatagcagat	gcgagcagga	gtaggagaga	gggaggttaag	agtcagaagc	ttatgtttgtt	240
tatgcgggga	aacgccttat	cgggggcagc	cragttatta	ggggacantr	tagwyartcw	300
agntagcatc	caaagcgngg	gagttntccc	atatggttgg	acctgcaggc	ggccgcatta	360
gtgattagca	tgtgagcccc	agacacgcac	agcaacaagg	acctaaactc	agatcctgtg	420
ctgattactt	aacatgaatt	attgtattta	tttaacaact	ttgagttatg	aggcatatta	480
ttaggtccat	attacctgga					500

<210> 168
 <211> 358
 <212> DNA
 <213> Homo sapien

ttcatcgctc	ggtgactcaa	gcctgtaatc	ccagaacttt	gggaggccga	ggggagcaga	60
tcacctgagg	ttgggagttt	gagaccagcc	tggccaacat	ggtgacaacc	cgtctctgct	120
aaaaatacaa	aaattagcca	agcatggttg	catgcacttg	taatcccagc	tactcggggag	180
gctgaggcag	gagaatcact	tgaggccagg	aggcagaggt	tgcagtgagg	cagaggttga	240
gatcatgcca	ctgcactcca	gcctgggcaa	cagagtaaga	ctccatctca	aaaaaaaaaa	300
aaaaaaagaa	tgatcagagc	cacaaataca	gaaaaccttg	agtcaccgag	cgatgaaa	358

<210> 169
 <211> 1265
 <212> DNA
 <213> Homo sapien

ttctgtccac	accaatctta	gagctctgaa	agaatttgct	tttaaataatc	ttttaatagt	60
aacatgtatt	ttatggacca	aattgacatt	ttcgactatt	ttttcccaaa	aaaagtcagg	120
tgaatttcag	cacactgagt	tggaatttc	ttatcccaga	agwcggcacg	agcaatttca	180

AI
Cm.t

tatttatttta agattgattc catactccgt tttcaaggag aatccctgca gtctccttaa 240
 aggtagaaca aatactttct attttttttt caccattgtg ggattggact ttaagagggtg 300
 actctaaaaa aacagagaac aaatatgtct cagttgtatt aagcacggac ccatattatc 360
 atattcactt aaaaaaatga tttcctgtgc accttttggt aacttctctt ttcaatgtag 420
 ggaaaaactt agtcaccctg aaaaccacaca aaataaataa aacttgtaga tgtgggcaga 480
 argtttgggg gtggacattg tatgtgttta aattaaacc tgtatcactg agaagctgtt 540
 gtatgggtca gagaaaatga atgcttagaa gctgttcaca tcttcaagag cagaagcaaa 600
 ccacatgtct cagctatatt attattttatt ttttatgcat aaagtgaatc atttcttctg 660
 tattaatttc caaagggttt taccctctat ttaaagtctt tgaaaaacag tgcattgaca 720
 atgggttgat atttttcttt aaaagaaaaa tataattatg aaagccaaga taatctgaag 780
 cctgttttat tttaaaactt tttatgttct gtggttgatg ttgtttgttt gtttgtttct 840
 atttgtttgg ttttttactt tgttttttgt tttgttttgt tttggttttg catactacat 900
 gcagtttctt taaccaatgt ctgtttggct aatgtaatta agttgttaa tttatatgag 960
 tgcatttcaa ctatgtcaat ggtttcttaa ttttatttgt gtagaagtac tggtaatttt 1020
 tttatttaca atatgtttaa agagataaca gtttgatatg tttcatgtg tttatagcag 1080
 aagttattta tttctatggc attccagcgg atatttttgt gtttgcgagg catgcagtca 1140
 atattttgta cagtttagtg acagtattca gcaacgcctg atagcttctt tggccttatg 1200
 ttaataaaaa agacctgttt gggatgtaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1260
 aaaaaa 1265

<210> 170
 <211> 383
 <212> DNA
 <213> Homo sapien

<400> 170
 tgtaagtcca gcagtgtgat gacgatattc ttcttattaa tgtggtaatt gaacaaatga 60
 tctgtgatac tgatcctgag ctaggaggcg ctgttcagtt aatgggactt cttcgtactc 120
 taattgatcc agagaacatg ctggctacaa ctaataaaac cgaaaaaagt gaattttctaa 180
 attttttcta caaccattgt atgcatgttc tcacagcacc acttttgacc aatacttcag 240
 aagacaaatg tgaaaaggat aatatagttg gatcaaaca aaacaacaca atttgtcccg 300
 ataattatca aacagcacag ctacttgctt taattttaga gttactcaca ttttgtgtgg 360
 aacatcacac tgctcgactt aca 383

<210> 171
 <211> 383
 <212> DNA
 <213> Homo sapien

<400> 171
 tgggcacctt caatatcgca agttaaaaaat aatgttgagt ttattatact tttgacctgt 60
 ttagctcaac aggggtgaagg catgtaaaga atgtggactt ctgaggaatt ttctttttaa 120
 aagaacataa tgaagtaaca ttttaattac tcaaggacta cttttggttg aagtttataa 180
 tctagatacc tctacttttt gtttttgctg ttcgacagtt cacaaagacc ttcagcaatt 240
 tacagggtaa aatcgttgaa gtagtggagg tgaaactgaa atttaaaatt attctgtaaa 300
 tactataggg aaagaggctg agcttagaat cttttggttg ttcatgtgtt ctgtgctctt 360
 atcatcacac tgctcgactt aca 383

<210> 172
 <211> 699
 <212> DNA

A1
 cm't

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(699)

<223> n = A,T,C or G

<400> 172

tcgggtgatg cctcctcagg cttgtcgtta gtgtacacag agctgctcat gaagcgacag 60
 cggctgcccc tggcacttca gaacctcttc ctctacactt ttggtgcgct tctgaatcta 120
 ggtctgcatg ctggcggcgg ctctggccca ggctcctgg aaagtttctc aggatgggca 180
 gcactcgtgg tgctgagcca ggcactaaat ggactgctca tgtctgctgt catggagcat 240
 ggcagcagca tcacacgcct ctttgtggtg tcctgctcgc tgggtgtcaa cgccgtgctc 300
 tcagcagtcc tgctacggct gcagctcaca gccgccttct tcctggccac attgctcatt 360
 ggcttgccca tgcgcctgta ctatggcagc cgctagtccc tgacaacttc caccctgatt 420
 ccggacctg tagattgggc gccaccacca gatccccctc ccaggccttc ctccctctcc 480
 catcagcggc cctgtaacaa gtgccttgtg agaaaagctg gagaagtgaag ggcagccagg 540
 ttattctctg gaggttggtg gatgaagggg taccctagg agatgtgaag tgtgggtttg 600
 gttaaggaaa tgcttaccat cccccacccc caaccaagtt nttccagact aaagaattaa 660
 ggtaacatca atacctaggc ctgaggaggc atcacccga 699

<210> 173

<211> 701

<212> DNA

<213> Homo sapien

<400> 173

tcgggtgatg cctcctcagg ccagatcaaa cttgggggttg aaaactgtgc aaagaaatca 60
 atgtcggaga aagaattttg caaaagaaaa atgcctaata agtactaatt taataggtca 120
 cattagcagt ggaagaagaa atgttgatat tttatgtcag ctattttata atcaccagag 180
 tgcttagctt catgtaagcc atctcgtatt cattagaaat aagaacaatt ttattcgtcg 240
 gaaagaactt ttcaatttat agcatcttaa ttgctcagga ttttaaattt tgataaagaa 300
 agctccactt ttggcaggag tagggggcag ggagagagga ggctccatcc acaaggacag 360
 agacaccagg gccagtaggg tagctggtgg ctggatcagt cacaacggac tgacttatgc 420
 catgagaaga aacaacctcc aaatctcagt tgcttaatac aacacaagct ctttcttgc 480
 tcacgttaca tgtcctatgt agatcaacag caggtgactc agggacccag gctccatctc 540
 catatgagct tccatagtea ccaggacacg ggctctgaaa gtgtcctcca tgcagggaca 600
 catgcctctt cctttcattg ggcagagcaa gtcacttatg gccagaagtc acactgcagg 660
 gcagtgccat cctgctgtat gcctgaggag gcacacccg a 701

<210> 174

<211> 700

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(700)

<223> n = A,T,C or G

<400> 174

AI
CmT

tgggtgatg	cctcctcang	cccctaaatc	agagtccagg	gtcagagcca	caggagacag	60
ggaaagacat	agatttttaac	cggccccctt	caggagattc	tgaggctcag	ttcactttgt	120
tgcagtttga	acagaggcag	caaggctagt	ggtaggggc	acggtctcta	aagctgcact	180
gcctggatct	gcctcccagc	tctgccagga	accagctgcg	tggccttgag	ctgctgacac	240
gcagaaagcc	ccctgtggac	ccagtctcct	cgtctgtaag	atgaggacag	gactctagga	300
accctttccc	ttggtttggc	ctcactttca	caggctccca	tcttgaactc	tatctactct	360
tttctgaaa	ccttgtaaaa	gaaaaaagtg	ctagcctggg	caacatggca	aaaccctgtc	420
tctacaaaa	atacaaaaat	tagttgggtg	tggtagcatg	tgctgtagt	cccagccact	480
tgggaggtgc	tgaggtggga	ggatcacttg	agcccgagg	gtggaggttg	cagtgaacca	540
agatcatgcc	actgcactcc	agcctgagta	atagagtaag	actctgtctc	aaaaacaaca	600
acaacaacag	tgagtgtgcc	tctgtttccg	ggtaggatgg	ggcaccacat	ttatgcatct	660
ctcagatttg	gacgctgcag	cctgaggagg	catcaccoga			700

<210> 175

<211> 484

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1) ... (484)

<223> n = A,T,C or G

<400> 175

tatagggcga	attggggccc	agttgcatgn	tcccggccgc	catggccgcg	ggattcgggt	60
gatgcctcct	caggcttgtc	tgccacaagc	tactctctct	agctcagaaa	gtgccccttg	120
atgagggaaa	atgtcctact	gcactgogaa	tttctcagtt	ccattttacc	tcccagtcct	180
ccttctaaac	cagttaataa	attcattcca	caagtattta	ctgattacct	gcttgtgcca	240
gggactattc	tcaggctgaa	gaaggtagga	ggggagggcg	gaacctgagg	agccacctga	300
gccagcttta	tatttcaacc	atggctggcc	catctgagag	catctcccca	ctctcgccaa	360
cctatcgggg	catagcccag	ggatgcccc	aggcgcccca	ggtagatgc	gtccccttgg	420
cttgtcagtg	atgacataca	ccttagctgc	ttagctgggtg	ctggcctgag	gaggcatcac	480
ccga						484

<210> 176

<211> 432

<212> DNA

<213> Homo sapien

<400> 176

tgggtgatg	cctcctcagg	gctcaaggga	tgagaagtga	cttctttctg	gagggaccgt	60
tcatgccacc	caggatgaaa	atggataggg	accacttg	aggacttgc	gatatgtttg	120
gacaaatgcc	aggtagcggg	attggtactg	gtccaggagt	tatccaggat	agattttcac	180
ccaccatggg	acgtcatcgt	tcaaatcaac	tcttcaatgg	ccatggggga	cacatcatgc	240
ctccacaca	atcgagttt	ggagagatgg	gaggcaagtt	tatgaaaagc	caggggctaa	300
gccagctcta	ccataaccag	agtcagggac	tcttatccca	gctgcaagga	cagtcgaagg	360
atatgccacc	tgggttttct	aagaaaggac	agcttaatgc	agatgagatt	agcctgagga	420
ggcatcacc	ga					432

<210> 177

<211> 788

AI
Cm17

<212> DNA

<213> Homo sapien

<400> 177

tagcatgttg agcccagaca cagtagcatt tgtgccaatt tctgggttga atgggtgacaa 60
 catgctggag ccaagtgcta acatgccttg gttcaaggga tggaaagtca cccgtaagga 120
 tggcaatgcc agtggaaacca cgctgcttga ggctctggac tgcacacctac caccaactcg 180
 cccaactgac aagcccttgc gcctgcctct ccaggatgtc tacaaaattg gtggtattgg 240
 tactgttcct gttggccgag tggagactgg tgttctcaaa cccggtatgg tggtcacctt 300
 tgctccagtc aacgttacaa cggaaagtaaa atctgtcgaa atgcaccatg aagctttgag 360
 tgaagctctt cctgggggaca atgtgggctt caatgtcaag aatgtgtctg tcaaggatgt 420
 tcgtcgtggc aacgttgctg gtgacagcaa aaatgaccca ccaatggaag cagctggctt 480
 cactgctcag gtgattatcc tgaaccatcc aggcacaaata agtgccggct atgcccctgt 540
 attggattgc cacacggctc acattgcatg caagtttgct gagctgaagg aaaagattga 600
 tcgccgttct ggtaaaaagc tggaaagatgg ccctaaattc ttgaagtctg gtgatgctgc 660
 cattgttgat atggttcctg gcaagcccat gtgtgttgag agcttctcag actatccacc 720
 tttgggtcgc tttgctgttc gtgatatgag acagacagtt gcggtgggtg tctgggctca 780
 acatgcta 788

<210> 178

<211> 786

<212> DNA

<213> Homo sapien

<400> 178

tagcatgttg agcccagaca cctgtgtttc tgggagctct ggcagtggcg gattcatagg 60
 cacttgggct gcactttgaa tgacacactt ggctttatta gattcactag tttttaaaaa 120
 attgtttgtc gtttcttttc attaaagggt taatcagaca gatcagacag cataattttg 180
 tatttaaatga cagaaacggt ggtacatttc tcatgaatg agcttgcatt ctgaagcaag 240
 agcctacaaa aggcacttgt tataaatgaa agttctggct ctagaggcca gtactctgga 300
 gtttcagagc agccagtgat tgttccagtc agtgatgcct agttatatag aggaggagta 360
 cactgtgcac tcttctaggt gtaagggat gcaactttgg atcttataat tctgtacaca 420
 tacacacttt atatatatgt atgtatgtat gaaaacatga aattagtttg tcaaatatgt 480
 gtgtgttttag tatttttagct tagtgcaact atttccacat tatttattaa attgatctaa 540
 gacactttct tgttgacacc ttgaatatta atgttcaagg gtgcaatgtg tattccttta 600
 gattgttaaa gcttaattac tatgatttgt agtaaattaa cttttaaaaat gtatttgagc 660
 ccttctgtag tgtcgtaggg ctcttacagg gtgggaaaga ttttaatttt ccagttgcta 720
 attgaacagt atggcctcat tatatatattt gatattatagg agtttgtgtc tgggctcaac 780
 atgcta 786

<210> 179

<211> 796

<212> DNA

<213> Homo sapien

<400> 179

tagcatgttg agcccagaca ctggttacaa gaccagacct gcttcctcca tatgtaaaaa 60
 gcttttaaaa agccagtga cctttttaat actttggcaa ccttctttca caggcaaga 120
 acacccccat ccgccccttg tttggagtgc agagtttggc tttgggtctt tgccttgctt 180
 ggagtatact tctaattcct gttgtcctgc acaagctgaa taccgagcta cccaccgcca 240
 cccaggccag gtttccactc atttattact ttatgtttct gttccattgc tgggtccacag 300

AI
 com. t

aaataagttt	tcctttggag	gaatgtgatt	ataccoccttt	aatttcctcc	ttttgctttt	360
ttttaatatc	attggtatgt	gtttggccca	gaggaaactg	aaattcacca	tcatcttgac	420
tggcaatccc	attaccatgc	tttttttaa	aaacgtaatt	tttcttgcc	tacattggca	480
gagtagccct	tcctggctac	tggcttaatg	tagtcactca	gtttctaggt	ggcattaggc	540
atgagacctg	aagcacagac	tgtcttacca	caaaagggtga	caagatctca	aaccttagcc	600
aaagggctat	gtcagggttc	aatgctatct	gcttctgttc	ctgctcactg	ttctggattt	660
tgtccttctt	catccctagc	accagaattt	cccagtcctc	ctccctacct	tcccttggtt	720
taattcta	ctatcagcaa	aataactttt	caaagtgttt	aaccgggtatc	tccatgtgtc	780
tgggctcaac	atgcta					796

<210> 180

<211> 488

<212> DNA

<213> Homo sapien

<400> 180

ggatgtgctg	caaggcgatt	aagttgggta	acgccagggt	tttcccagtc	acgacgttgt	60
aaaacgacgg	ccagtgaatt	gtaatacgac	tcactatagg	gcgaattggg	cccagcgtcg	120
catgctcccg	gcgcgccatg	ccgcgggata	gcatgttgag	cccagacacc	tgcaggatcat	180
ttggagagat	ttttcacgtt	accagcttga	tggctctttt	caggaggaga	gacactgagc	240
actcccaagg	tgagggttga	gatttcctct	agatagccgg	ataagaagac	taggagggat	300
gcctagaaaa	tgatttagcat	gcaaatttct	acctgccatt	tcagaactgt	gtgtcagccc	360
acattcagct	gcttcttgtg	aactgaaaag	agagagggtat	tgagactttt	ctgatggccg	420
ctctaacatt	gtaacacagt	aatctgtgtg	tgtgtgggtg	tgtgtgtgtg	tctgggctca	480
acatgcta						488

<210> 181

<211> 317

<212> DNA

<213> Homo sapien

<400> 181

tagcatgttg	agcccagaca	cggcgacggt	acctgatgag	tgggggtgatg	gcacctgtga	60
aaaggaggaa	cgatcatccc	catgatattg	gggaccaga	tgatgaacca	tggctccgcg	120
tcaatgcata	tttaatccat	gatactgctg	attggaagga	cctgaacctg	aagtttgtgc	180
tgcaggttta	tggggactat	tacctcacgg	gtgatcaaaa	cttcctgaag	gacatgtggc	240
ctgtgtgtct	agtaagggat	gcacatgcag	tggccagtgt	gccaggggta	tgggtgggtg	300
ctgggctcaa	catgcta					317

<210> 182

<211> 507

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1) ... (507)

<223> n = A,T,C or G

<400> 182

tagcatgttg	agcccagaca	ctggctgtta	gccaaatcct	ctctcagctg	ctccctgtgg	60
------------	------------	------------	------------	------------	------------	----

A1
cm.t

tttgggtgact	caggattaca	gaggcatcct	gtttcagggg	acaaaaagat	tttagctgcc	120
agcagagagc	accacataca	ttagaatggg	aaggactgcc	acctccttca	agaacaggag	180
tgaggggtgg	ggtgaatggg	aatggaagcc	tgcattccct	gatgcatttg	tgctctctca	240
aatcctgtct	tagtcttagg	aaaggaagta	aagtttcaag	gacggttccg	aactgctttt	300
tgtgtctggg	ctcaacatgc	tatcccgcgg	ccatggcgcc	cgggagcatg	cgacgtcggg	360
cccaattcgc	cctatagtga	gtcgtattac	aattcactgg	ccgtcgtttt	acaacgtcgt	420
gactgggaaa	accctggcgt	tacccaactt	aatcgccttg	cagcacatcc	ccctttccca	480
gctggcgtaa	tancgaaaag	gcccgcga				507

<210> 183

<211> 227

<212> DNA

<213> Homo sapien

<400> 183

gatttacgct	gcaacactgt	ggaggtagcc	ctggagcaag	gcaggcatgg	atgcttctgc	60
aatccccaaa	tggagcctgg	tatttcagcc	aggaatctga	gcagagcccc	ctctaattgt	120
agcaatgata	agttattctc	tttgttcttc	aaccttccaa	tagccttgag	cttccagggg	180
agtgtcgtaa	atcattacag	cctggtctcc	acagtgttgc	agcgtaa		227

<210> 184

<211> 225

<212> DNA

<213> Homo sapien

<400> 184

ttacgctgca	acactgtgga	gcagattaac	atcagacttt	tctatcaaca	tgactggggg	60
tactaaaaag	acaacaaatc	aatggcttca	aaagtctaag	gaataatttc	gatacttcaa	120
ctttataaaa	cctgacaaaa	ctatcaatca	agcataaaga	cagatgaaga	acatttccag	180
attttgggcca	atcagatatt	ttacctccac	agtgttgacg	cgtaa		225

<210> 185

<211> 597

<212> DNA

<213> Homo sapien

<400> 185

ggcccgacgt	cgcattgctcc	cggccgccat	ggcccgcgga	ttcggttaggg	tctctatcca	60
ctggggaccca	taggctagtc	agagtattta	gagttgagtt	cctttctgct	tcccagaatt	120
tgaaagaaaa	ggagttaggt	gatagagctg	agagatcaga	tttgccctcg	aagcctgttc	180
aagatgtatg	tgctcagacc	ccaccactgg	ggcctgtggg	tgaggctctg	ggcatctatt	240
tgaatgaatt	gctgaagggg	agcactatgc	caaggaaggg	gaacccatcc	tggcactggc	300
acaggggtca	ccttatccag	tgctcagtgc	ttctttgctg	ctacctgggt	ttctctcata	360
tgtgaggggc	aggtaagaag	aagtgcctcg	tgttgtgcga	gttttagaac	atctaccagt	420
aagtggggaa	gtttcacaaa	gcagcagctt	tgttttgtgt	attttcacct	tcagttagaa	480
gaggaaggct	gtgagatgaa	tgttagttag	gtggaaaaga	cgggtaagct	tagtggatag	540
agaccctaac	gaatcactag	tgcggccgcc	ttgcaggctg	accatatggg	agagctc	597

<210> 186

<211> 597

<212> DNA

AI
cm.t

<213> Homo sapien

<400> 186

ggcccgaagt	tgcatgttcc	cgcccgccat	ggccgcggga	ttcgttagg	tctctatcca	60
ctacctaaaa	aatcccaaac	atataactga	actcctcaca	cccaattgga	ccaatccatc	120
accccgagg	cctacagatc	ctcctttgat	acataagaaa	atttcccca	actacctaac	180
tatatcattt	tgcaagattt	gttttaccaa	attttgatgg	cctttctgag	cttgtcagtg	240
tgaaccacta	ttacgaacga	tcggatatta	actgcccctc	accgtccagg	tgtagctggc	300
aacatcaagt	gcagtaaata	ttcattaagt	tttcacctac	taagggtgctt	aaacacccta	360
gggtgccatg	tcggtagcag	atcttttgat	ttgtttttat	ttcccataag	ggtcctgttc	420
aagggtcaatc	atacatgtag	tgtgagcagc	tagtcactat	cgcattgactt	ggaggggtgat	480
aatagaggcc	tccttttgctg	ttaaagaact	cttggtcccag	cctgtcaaag	tggatagaga	540
ccctaacgaa	tcactagtgc	ggccgcctgc	aggtcgacca	tatgggagag	ctcccaa	597

<210> 187

<211> 324

<212> DNA

<213> Homo sapien

<400> 187

tcgttaggg	ctctatccac	ttgcaggtaa	aatccaatcc	tgtgtatatc	ttatagtctt	60
ccatatgtag	tggttcaaga	gactgcagtt	ccagaaagac	tagccgagcc	catccatgtc	120
ttccacttaa	ccctgctttg	ggttacacat	cttaactttt	ctgttcaagt	ttctctgtgt	180
agtttatagc	atgagtattg	ggawaatgcc	ctgaaacctg	acatgagatc	tgggaaacac	240
aaacttactc	aataagaatt	tctcccatat	ttttatgatg	gaaaaatttc	acatgcacag	300
aggagtggat	agagacccta	acga				324

<210> 188

<211> 178

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1) ... (178)

<223> n = A,T,C or G

<400> 188

gcgcggggat	tcgggggtgat	acctcctcat	gccaaaatac	aacgtntaat	ttcacaactt	60
gccttccaat	ttacgcattt	tcaatttgct	ctccccattt	gttgagtcac	aacaaacacc	120
attgcccaga	aacatgtatt	acctaacatg	cacatactct	taaaactact	catccctt	178

<210> 189

<211> 367

<212> DNA

<213> Homo sapien

<400> 189

tgacaccttg	tccagcatct	gacacagtct	tggctcttgg	aaaatattgg	ataaatgaaa	60
atgaatttct	ttagcaagtg	gtataagctg	agaatatagc	tatcacatat	cctcattcta	120
agacacattc	agtgtccctg	aaattagaat	aggacttaca	ataagtgtgt	tcactttctc	180

AI
em't

aatagctggtt attcaattga tggtaggcct taaaagtcaa agaaatgaga gggcatgtga 240
 aaaaaagctc aacatcactg atcattagaa aacttccatt caaaccccca atgagatacc 300
 atctcatacc agtcagaatg gctattatta aaaagtcaaa aaataacaga tgctggacaa 360
 ggtgtca 367

<210> 190

<211> 369

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(369)

<223> n = A,T,C or G

<400> 190

gacaccttgt ccagcatctg acaacgctaa cagcctgagg agatctttat ttattttattt 60
 agtttttact ctggctaggc agatggtggc taaaacattc atttaccat ttatttcattt 120
 aattgttcct gcaaggccta tggatagagt attgtccagc actgctctgg aagctaggag 180
 catggggatg aacaagatag gctacatcct gttcccacag aacttccact ttagtctggg 240
 aaacagatga tatatacaaa tatataaatg aattcaggta gttttaagta cgaaaagaat 300
 aagaaagcag agtcatgatt tanaatgctg gaaacagggg ctattgcttg agatattgaa 360
 ggtgcccaa 369

<210> 191

<211> 369

<212> DNA

<213> Homo sapien

<400> 191

tgacaccttg tccagcatct gcacagggaa aagaaactat tatcagagtg aacagggaac 60
 ctacagaatg ggagaaaatt ttgcaatct atccatctga caaagggcta atatccagaa 120
 tctacaaaga acttatacaa atttacaaga aacaaacaaa caaacaactc ctcaaaaagt 180
 ggggtgaagga tgtgaacaga cacttctcaa aagaagacat ttatggggcc aacaaacata 240
 tgaaaaaaag ctcacatca ctggctacta gataaatgca aatcaaaacc acaatgagat 300
 accatctcat tccagttaga atggcaatca ttaaaaagtc aggaacaac agatgctgga 360
 caaggtgtc 369

<210> 192

<211> 449

<212> DNA

<213> Homo sapien

<400> 192

tgacgcttgg ccacttgaca cttcatcttt gcacagaaaa acttctttac agatttaatt 60
 caagactggt ctagtgcag tccctccagac attttttcat ttgttccata tacgtggaat 120
 tttaaaatca tgtttcatca gtttgaaatg atttgggctg ctaatcaaca caattggatc 180
 gactgttcta ctaaacaaca ggaaaatgtg tatctggcag cctgtggaga aacactaaac 240
 attgattttt ctttgccttt tacggacttt gttccagcta catgtaatac caagttctct 300
 ttaagaggag aagatgttga tcttcatttg tttctaccag actgccaccc tagtaaatat 360
 tctttattta tgctggtaaa aaattgccat ccaaataaga tgattcatga tactggtatt 420

AI
cm't

cctgctgagt gtcaagtggc caagcgtca

449

<210> 193
 <211> 372
 <212> DNA
 <213> Homo sapien

<400> 193
 tgacgcttg ccacttgaca ccagggatgt akcagttgaa tataatcctg caattgtaca 60
 tattggcaat ttcccatcaa acattctaga aagagacaac caggattgct aggccataaa 120
 agctgcaata aataactggg aattgcagta atcatttcag gccaatcaa tccagtttg 180
 ctgagagtg cctttggctg agagaagagg tgagatataa tgtgttttct tgcaacttct 240
 tggaagaata actccacaat agtctgagga ctagatacaa acctatttgc cattaagca 300
 ccagagtctg ttaattccag tactgataag tgttgagat tagactccag tgtgtcaagt 360
 ggccaagcgt ca 372

<210> 194
 <211> 309
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(309)
 <223> n = A,T,C or G

<400> 194
 tgacgcttg ccacttgaca cttatgtaga atccatcgtg ggctgatgca agccctttat 60
 ttaggcttag tgttgtgggc accttcaata tcacactaga gacaaacgcc acaagatctg 120
 cagaaacatt cagttctgan cactcgaatg gcaggataac tttttgtgtt gtaatccttc 180
 acatatacaa aaacaaactc tgcantctca cgttacaaaa aaacgtactg ctgtaaaata 240
 ttaagaagg gtaaaggata ccattctataa caaagtaact tacaactagt gtcaagtggc 300
 caagcgtca 309

<210> 195
 <211> 312
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(312)
 <223> n = A,T,C or G

<400> 195
 tgacgcttg ccacttgaca cccaatctcg cacttcatcc tcccagcacc tgatgaagta 60
 ggactgcaac tatccccact tcccagatga ggggaccaan gtacacatta ggacccggat 120
 gggagcacag atttgtccga tcccagactc caagcactca gcgtcactcc aggacagcgg 180
 ctttcagata aggtcacaaa catgaatggc tccgacaacc ggagtcagtc cgtgctgagt 240
 taaggcaatg gtgacacgga tgcacgtgtn acctgtaat gttcatcgta agtgtcaagt 300
 ggccaagcgt ca 312

AI
 cm.t

<210> 196
 <211> 288
 <212> DNA
 <213> Homo sapien

<400> 196
 tgtatcgacg tagtgggtctc ctcagccatg cagaactgtg actcaattaa acctctttcc 60
 ttatgaatt acccaatctc gggtagtgtc tttatagtag tgtgagaatg gactaataca 120
 agtacatttt acttagtaat aataataaac aaatatatta catttttgtg tattttactac 180
 accatatttt ttattgttat tgtagtgtac accttctact tattaaaaga aataggcccg 240
 aggcgggcag atcacgaggt caggagatgg agaccactac gtcgatac 288

<210> 197
 <211> 289
 <212> DNA
 <213> Homo sapien

<400> 197
 ttgggcacct tcaatatcat gacaggtgat gtgataacca agaaggctac taagtgatta 60
 atgggtgggt aatgtataca gagtaggtac actggacaga ggggtaattc atagccaagg 120
 caggagaagc agaatggcaa aacatttcat cacactactc aggatagcat gcagtttaaa 180
 acctataagt agtttatttt tggaattttc cacttaatat ttccagactg caggtaacta 240
 aactgtggaa cacaagaaca tagataaggg gagaccacta cgtcgatac 289

<210> 198
 <211> 288
 <212> DNA
 <213> Homo sapien

<400> 198
 gtatcgacgt agtgggtctcc caagcagtgg gaagaaaacg tgaaccaatt aaaatgtatc 60
 agatacccca aagaaaggcg cttgagtaaa gattccaagt gggtcacaat ctcagatctt 120
 aaaattcagg ctgtcaaaga gatttgctat gaggttgctc tcaatgactt caggcacagt 180
 cggcaggaga ttgaagccct ggccattgtc aagatgaagg agctttgtgc catgtatggc 240
 aagaaagacc ccaatgagcg ggactcctgg agaccactac gtcgatac 288

<210> 199
 <211> 1027
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(1027)
 <223> n = A,T,C or G

<400> 199
 gctttttggg aaaaacncaa ntgggggaaa gggggnttnn tngcaagggg ataaaggggg 60
 aancccgagg tttcccatc caggaggtg taaaaagncg gccaggggat tgtaanagga 120
 ttcaataata gggggaatgg gccnngaagt tgcaaggttc cngcccgcca tgnccgcggg 180

AI
 cm.t

atttagtgac attacgacgs tggtaataaa gtgggsccaa waaatatttg tgatgtgatt 240
 tttsgaccag tgaaccatt gwacaggacc tcatttccty tgagatgrta gccataatca 300
 gataaaagrt tagaagtytt tctgcacgtt aacagcatca ttaaattggag tggcatcacc 360
 aatttcaccc tttgttagcc gataccttcc ccttgaaggc attcaattaa gtgaccaatc 420
 gtcatacgag aggggatggc atggggattg atgatgatc caggggtgat accttcacag 480
 gtgaaaggca tatcctcttg tctatactga ataccacaag tacccttttg accatgtcga 540
 ctagcaaat tgtctccaat ctgtgtwatc cctaacagag cgtaccctta ttttacaaaa 600
 tttatatcct tcttgattga gagttaccat aacctgatcc acaatgcccg tctcgctwgt 660
 tctgagaaaa gtgctacagt ctctcttggt atagcgtcta ttggtgctct ccaattcatc 720
 ttcatttttc aggcaagggt aactgttttg cctataataa cmtcatctcc tgatacmcga 780
 aacccckgga rctatcaaac catcatcatc cagcgttckt watgtymcta aatccctatt 840
 gcggcgccct gcagggtcaac atatnggaaa acccccacc ccttnggagc ntaccttgaa 900
 ttttccatat gtcccntaaa ttanctngnc ttanctggc cntaacctnt tccgggtttaa 960
 attgtttccg ccccnttcc cnccttnna accggaaacc ttaattttna accngggggt 1020
 cctatcc 1027

<210> 200

<211> 207

<212> DNA

<213> Homo sapien

<400> 200

agtgacatta cgacgctggc catcttgaat cctagggcat gaagttgccc caaagttcag 60
 cacttggtta agcctgatcc ctctggttta tcacaaagaa taggatggga taaagaaagt 120
 ggacacttaa ataagctata aattatatgg tccttgtcta gcaggagaca actgcacagg 180
 tatactacca gcgtcgtaat gtcacta 207

<210> 201

<211> 209

<212> DNA

<213> Homo sapien

<400> 201

tgggcacctt caatatctat taaaagcaca aatactgaag aacacaccaa gactatcaat 60
 gaggttacat ctggagtcc c gatatatca ggaaaaaatg aagtgaacat tcacagagtt 120
 ttacttcttt gggaactcaa atgctagaaa agaaaagggt gccctctttc tctggcttcc 180
 tggtcctatc cagcgtcgta atgtcacta 209

<210> 202

<211> 349

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(349)

<223> n = A,T,C or G

<400> 202

ntacgctgca aactgtgga gccactggtt tttattcccg gcaggttatc cagcaaacag 60
 tcaactgaaca caccgaagac cgtggtatgg taaccgttca cagtaatcgt tccagtcgtc 120

AI
Cmt

tgcgggaccc	cgacgagcgt	cactgggtac	agaccagatt	cagccggaag	agaaagcgcc	180
gcagggagag	actcgaactc	cactccgctg	gtgagcagcc	ccatgttttc	aactcgaagt	240
tcaaacggca	ttgggttata	taccatcagc	tgaacttcac	acacatctcc	ttgaaccac	300
tggaaatcta	ttttcttggt	ccgctcttct	ccacagtgtt	gcagcgtaa		349

<210> 203

<211> 241

<212> DNA

<213> Homo sapien

<400> 203

tgctctcttt	gccttaccaa	cccaaagccc	actgtgaaat	atgaagtga	tgacaaaatt	60
cagttttcaa	cgcaatatag	tatagtttat	ctgattcttt	tgatctccag	gacactttta	120
acaactgcta	ccaccaccac	caacctaggg	atttaggatt	ctccacagac	cagaaattat	180
ttctctttg	agtttcaggc	tcctctggga	ctcctgttca	tcaatgggtg	gtaaatggct	240
a						241

<210> 204

<211> 248

<212> DNA

<213> Homo sapien

<400> 204

tagccattta	ccacccatct	gcaaaccswg	acmwwcargr	cywgwackya	ggcgatttga	60
agtactggta	atgctctgat	catgttagtt	acataagtgt	ggtcagttta	caaaaattca	120
cagaactaaa	tactcaatgc	tatgtgttca	tgtctgtgtt	tatgtgtgtg	taatgtttca	180
attaagtfff	tttaaaaaaa	agagatgatt	tccaaataag	aaagccgtgt	tggttaaggca	240
agaggagc						248

<210> 205

<211> 505

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(505)

<223> n = A,T,C or G

<400> 205

tacgctgcaa	cactgtggag	ccattcatac	aggtccctaa	ttaaggaaca	agtgattatg	60
ctacctttgc	acggttaggg	taccgcggcc	gttaaacaatg	tgtcactggg	caggcgggtgc	120
ctctaatact	ggatgatgcta	gaggtgatgt	ttttggtaaa	caggcgggggt	aagattttgcc	180
gagttccttt	tacttttttt	aacctttcct	tatgagcatg	cctgtgtttg	gttgacagtg	240
ggggtaataa	tgacttggtg	gttgattgta	gatattgggc	tgttaattgt	cagttcagtg	300
ttttaatctg	acgcaggctt	atgcggagga	gaatgttttc	atgttaactta	tactaacatt	360
agttcttcta	tagggtgata	gattggtcca	attgggtgtg	aggagttcag	ttatatgttt	420
gggatttttt	aggtagtggg	tgttgancct	gaacgctttc	ttaattgggtg	gctgctttta	480
rgcctactat	gggtggtaaa	tggtct				505

<210> 206

AI
cm.t

<211> 179
 <212> DNA
 <213> Homo sapien

<400> 206
 tagactgact catgtcccct accaaagccc atgtaaggag ctgagttctt aaagactgaa 60
 gacagactat tctctggaga aaaataaaat ggaaattgta ctttaaaaaa aaaaaaaatc 120
 ggccgggcat ggtagcacac acctgtaatc ccagctacta ggggacatga gtcagtcta 179

<210> 207
 <211> 176
 <212> DNA
 <213> Homo sapien

<400> 207
 agactgactc atgtccccta cccaccttc tgctgtgctg cegtgttctt aacagggtcac 60
 agactggtagc tggtagtggt cctgggggtt ggggacctct attatatggg atacaaattt 120
 aggagttgga attgacacga tttagtgtact gatgggatat gggtaggtaaa tggcta 176

<210> 208
 <211> 196
 <212> DNA
 <213> Homo sapien

<400> 208
 agactgactc atgtccccta tttacacagg tctctagtgc tgtgaaaaaa aaaaatgctg 60
 aacattgcat ataacttata ttgtaagaaa tactgtacaa tgactttatt gcatctgggt 120
 agctgtaagg catgaaggat gccaaagaat ttaaggaata tgggtggtaa atggctaggg 180
 gacatgagtc agtcta 196

<210> 209
 <211> 345
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(345)
 <223> n = A,T,C or G

<400> 209
 gacgcttggc cacttgacac cttttatttt ttaaggattc ttaagtcatt tangtnactt 60
 tgtaagtttt tctgtgccc ccataagaat gatagcttta aaaattatgc tggggtagca 120
 aagaagatac ttctagcttt agaattgtga ggtatagcca ggattcttgt gaggagggt 180
 gatttagagc aaatttctta ttctccttgc ctcatctgta acatggggat aataatagaa 240
 ctggcttgac aaggttgga ttagtattac atggtaaata catgtaaaat gtttagaatg 300
 gtgccaagta tctaggaagt acttgggcat gggtaggtaaa tggct 345

<210> 210
 <211> 178
 <212> DNA

AI
 cmt

<213> Homo sapien

<400> 210

gacgcttggc cacttgacac tagagtaggg tttggccaac tttttctata aaggaccaga	60
gagtaaatat ttcaggcttt gtgggttggt cagtctctct tgcaactact cagctctgcc	120
attgtagcat agaaatcagc catagacagg acagaaatga atgggtggta aatggcta	178

<210> 211

<211> 454

<212> DNA

<213> Homo sapien

<400> 211

tgggcacctt caatatctat ccagcgcac taaattcgct tttttcttga ttaaaaattt	60
caccacttgc tgtttttgct catgtatacc aagtagcagt ggtgtgaggc catgcttggt	120
ttttgattcg atatacagc cgtataagag cagtgccttg gccattaatt tatcttcatt	180
gtagacagca tagtgtagag tggatatctc atactcatct ggaatatttg gatcagtgcc	240
atgtccagc aacattaacg cacattcatc ttcttggcat tgtacggcct ttgtcagagc	300
tgtcctcttt ttgttgtcaa ggacattaag ttgacatcgt ctgtccagca cgagttttac	360
tacttctgaa ttcccattgg cagaggccag atgtagagca gtcctctttt gcttgtccct	420
cttgttcaca tcagtgtccc tgagcataac ggaa	454

<210> 212

<211> 337

<212> DNA

<213> Homo sapien

<400> 212

tccgttatgc caccagaaaa acctactgga gttacttatt aacatcaagg ctggaacctt	60
tttgctcag tctatctga ttcattgagca catgggttatt actgatcgca ttgaaaacat	120
tgatcacctg ggtttcttta tttatcgact gtgtcatgac aaggaaactt acaaaactga	180
acgcagagaa actattaaag gtattcagaa acgtgaagcc agcaattgtt tcgcaattcg	240
gcattttgaa aacaaatttg ccgtggaaac ttttaattgt tcttgaacag tcaagaaaaa	300
cattattgag gaaaattaat atcacagcat aacggaa	337

<210> 213

<211> 715

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(715)

<223> n = A,T,C or G

<400> 213

tcgggtgatg cctcctcagg catcttccat ccatctcttc aagattagct gtcccaaattg	60
tttttccttc tcttctttac tgataaattt ggactccttc ttgacactga tgacagcttt	120
agtatccttc ttgtcacctt gcagacttta aacataaaaa tactcattgg ttttaaaagg	180
aaaaaagtat acattagcac tattaagctt ggcttgaaa cattttctat cttttattaa	240
atgtcggtta gctgaacaga attcatttta caatgcagag tgagaaaaga agggagctat	300

AI
CmT

atgcatttga gaatgcaagc attgtcaaat aaacatttta aatgctttct taaagtgagc 360
 acatacagaa atacattaag atattagaaa gtgtttttgc ttgtgtacta ctaattaggg 420
 aagcaccttg tatagttcct cttctaaaat tgaagtagat tttaaaaacc catgtaattt 480
 aattgagctc tcagttcaga ttttaggaga attttaacag ggatttggtt ttgtctaaat 540
 tttgtcaatt tnttttagtta atctgtataa ttttataaat gtcaaactgt atttagtccg 600
 ttttcatgct gctatgaaag aaatacccan gacaggggta tttataaang gaaagangtt 660
 aatttgactc ccagttcaca ggctgagga ngnatcnccc gaaatcctta ttgcg 715

<210> 214

<211> 345

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(345)

<223> n = A,T,C or G

<400> 214

ggtaangngc atacntcggg gctccggccg ccggagtcgg gggattcggg tgatgcctcc 60
 tcaggcccac ttgggcctgc ttttcccaaa tggcagctcc tctggacatg ccattccttc 120
 tcccacctgc ctgattcttc atatgttggg tgtccctgtt tttctgggtc tatttcctga 180
 ctgctgttca gctgccactg tcctgcaaag cctgcctttt taaatgcctc accattcctt 240
 catttgttc ttaaatatgg gaagtgaag tgcacactga ggccgggcac agtggtcac 300
 gcctgtaatc ccagcacttt gggagcctga ggagggcatca cccga 345

<210> 215

<211> 429

<212> DNA

<213> Homo sapien

<400> 215

ggtgatgcct cctcaggcga agctcagggg ggacagaaac ctcccgtgga gcagaagggc 60
 aaaagctcgc ttgatcttga ttttcagtac gaatacagac cgtgaaagcg gggcctcacg 120
 atccttctga ccttttgggt tttaagcagg aggtgtcaga aaagttacca cagggataac 180
 tggttgttg cggccaagcg ttcatacgca cgtcgtttt tgatccttcg atgtcggtc 240
 ttccatcat tgtgaagcag aattcaccaa gcgttggtt gttcacccac taatagggaa 300
 cgtgagctgg gtttagaccg tcgtgagaca ggtagtttt accctactga tgatgtgtkg 360
 ttgccatggt aatcctgctc agtacgagag gaaccgcagg ttcasacatt tgggtgtatgt 420
 gcttgctt 429

<210> 216

<211> 593

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(593)

<223> n = A,T,C or G

AI
Cm.T

<400> 216

tgacacctat	gtcngcatc	tgttcacagt	ttccacaaat	agccagcctt	tggccacctc	60
tctgtcctga	ggtatacaag	tatatcagga	ggtgtatacc	ttctcttctc	ttccccacca	120
aagagaacat	gcaggctctg	gaagctgtct	taggagcctt	tgggctcaga	atttcagagt	180
cttgggtacc	ttggatgtgg	tctggaagga	gaaacattgg	ctctggataa	ggagtacagc	240
cggaggaggg	tcacagagcc	ctcagctcaa	gcccctgtgc	cttagtctaa	aagcagcttt	300
ggatgaggaa	gcaggttaag	taacatacgt	aagcgtacac	aggtagaaag	tgctgggagt	360
cagaattgca	cagtgtgtag	gagtagtacc	tcaatcaatg	agggcaaata	aactgaaaga	420
agaagacna	ttaatgaatt	gcttangggg	aaggatcaag	gctatcatgg	agatctttct	480
aggaagatta	ttgtttanaa	ttatgaaagg	antagggcag	ggacagggcc	agaagtanaa	540
ganaacattg	cctatanccc	ttgtcttgca	cccagatgct	ggacaagggt	tca	593

<210> 217

<211> 335

<212> DNA

<213> Homo sapien

<400> 217

tgacaccttg	tccagcatct	gacgtgaaga	tgagcagctc	agaggaggtg	tcctggattt	60
cctgggttctg	tgggctccgt	ggcaatgaat	tcttctgtga	agtggatgaa	gactacatcc	120
aggacaaatt	taatcttact	ggactcaatg	agcagggtccc	tcactatcga	caagctctag	180
acatgatctt	ggacctggag	cctgatgaag	aactggaaga	caaccccaac	cagagtgacc	240
tgattgagca	ggcagccgag	atgctttatg	gattgatcca	cgcccgtac	atccttacca	300
accgtggcat	cgcccagatg	ctggacaagg	tgtca			335

<210> 218

<211> 248

<212> DNA

<213> Homo sapien

<400> 218

tacgtactgg	tcttgaagggt	cttaggtaga	gaaaaaatgt	gaatatttaa	tcaaagacta	60
tgtatgaaat	gggactgtaa	gtacagaggg	aagggtggcc	cttatcgcca	gaagttggta	120
gatgcgtccc	cgtcatgaaa	tgttgtgtca	ctgcccagaca	tttgccgaat	tactgaaatt	180
ccgtagaatt	agtgcaaatt	ctaacgttgt	tcatactaaga	ttatgggttcc	atgtttctag	240
tactttta						248

<210> 219

<211> 530

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1) ... (530)

<223> n = A,T,C or G

<400> 219

tgacgcttgg	ccacttgaca	caagtagggg	ataaggacaa	agacccatna	ggtggcctgt	60
cagccttttg	ttactgttgc	ttccctgtca	ccacggcccc	ctctgtaggg	gtgtgctgtg	120
ctctgtggac	attggtgcat	tttcacacat	accattctct	ttctgcttca	cagcagtcct	180

AI
cm.t

gaggcgggag	cacacaggac	taccttgatca	gatgangata	atgatgtctg	gccaaactcac	240
cccccaacct	tctcactagt	tatangaaga	gccangccta	naaccttcta	tctgncccc	300
ttgccctatg	acctcatccc	tggtccatgc	cctattctga	tttctgggtga	actttggagc	360
agcctgggtt	ntcctcctca	ctccagcctc	tctccatacc	atgggtanggg	gggtgctgttc	420
cacncaaang	gtcaggtgtg	tctggggaat	cctnananct	gccnggagtt	tccnangcat	480
tcttaaaaac	cttcttgctc	aatcanatng	tgtccagtgg	ccaaccntcn		530

<210> 220
 <211> 531
 <212> DNA
 <213> Homo sapien

AI
Cm.T

<400> 220						
tgacgcttgg	ccacttgaca	ctaaatagca	tcttctaaag	gcctgattca	gagttgtgga	60
aaattctccc	agtgtcaggg	attgtcagga	acagggctgc	tctgtgctc	actttacctg	120
ctgtgtttct	gctggaaaag	gagggagag	gaatggctga	ttttaccta	atgtctccca	180
gtttttcata	ttcttcttgg	atcctcttct	ctgacaactg	ttcccttttg	gtcttcttct	240
tcttgctcag	agagcaggtc	tctttaaaac	tgagaaggga	gaatgagcaa	atgattaaag	300
aaaacacact	tctgaggccc	agagatcaaa	tattaggtaa	atactaaacc	gcttgctctc	360
tgtgggtcact	tttctcctct	ttcacatgct	ctatccctct	atccccacc	tattcatatg	420
gcttttatct	gccaaagttat	ccggcctctc	atcaaccttc	tcccttagcc	tactggggga	480
tatccatctg	gggtctgtctc	tggtgtattg	gtgtcaagtg	gccaaagctc	a	531

<210> 221
 <211> 530
 <212> DNA
 <213> Homo sapien

<400> 221						
attgacgctt	ggccacttga	caccgcctg	cctgcaatac	tggggcaagg	gccttcactg	60
ctttcctgcc	accagctgcc	actgcacaca	gagatcagaa	atgctaccaa	ccaagactgt	120
tggtcctcag	cctctctgag	gagaaagagc	agaagcctgg	aagtcagaag	agaagctaga	180
tgggtacggg	ccttggcagc	cagcttcccc	acctgtggca	ataaagtcgt	gcattggctta	240
acaatggggg	cacctcctga	gaaacacatt	gttaggcaat	tgggcgtgtg	ttcatcagag	300
catattttaca	caaacctcga	tagtgcagcc	tactatccac	tattgctcct	acgtgcaaaa	360
cctgaacagc	atgggactgt	actgaatact	ggaagcagct	ggatgatgga	cttattttgtg	420
tatctaaaca	cagagaaggt	acagtaagaa	tatggtatca	taaacttaca	gggaccgcca	480
tcttatatgc	agtctgttgt	gaccaaaatg	tgtcaagtgg	ccaagcgtca		530

<210> 222
 <211> 578
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(578)
 <223> n = A,T,C or G

<400> 222						
tgtatcgacg	tagtgggtctc	cgggctacta	ggccgttgtg	tgctggtagt	acctggttca	60

ctgaaaggcg	catctccctc	cccgcgtcgc	cctgaagcag	ggggaggact	tcgcccagcc	120
aaggcagttg	tatgagtttt	agctgcgcca	cttcgagacc	tctgagccca	cctccttcag	180
gagccttccc	cgattaagga	agccagggtg	aggattcctt	cctccccccag	acaccacgaa	240
caaaccacca	ccccccctat	tctggcagcc	catatacatc	agaacgaaac	aaaaataaca	300
aataaacnaa	aaccaaataa	aaaagagaag	gggaaatgta	tatgtctgtc	catcctgttg	360
ctttagcctg	tcagctccta	nagggcaggg	accgtgtcct	ccgaatgggc	tgtgcagcgc	420
cgactgcggg	aagtatcgga	ggaggaagca	gagtcagcag	aagttgaacg	gtgggcccgg	480
cggctcttgg	gggctgggtg	tgtacttcga	gaccgctttc	gctttttgtc	ttagattttac	540
gtttgctctt	tggagtggga	naccactacn	tcnatata			578

<210> 223

<211> 578

<212> DNA

<213> Homo sapien

<400> 223

tgtatcgacg	tagtgggtctc	ctcttgcaaa	ggactggctg	gtgaatgggt	tccctgaatt	60
atggacttac	cctaaacata	tcttatcatc	attaccagtt	gcaaaatatt	agaatgtggt	120
gtcactgttt	catttgattc	ctagaagggt	agtcttagat	atgttacttt	aacctgtatg	180
ctgtagtgct	ttgaatgcat	tttttgtttg	catttttggt	tgcccaacct	gtcaattata	240
gctgcttagg	tctggactgt	cctggataaa	gctgttaaaa	tattcaccag	tccagccatc	300
ttacaagcta	attaagtcaa	ctaaatgctt	ccttggtttg	ccagacttgt	tatgtcaatc	360
ctcaatttct	gggttcattt	tgggtgccct	aaatcttagg	gtgtgacttt	cttagcatcc	420
tgtaacatcc	attcccaagc	aagcacaact	tcacataata	ctttccagaa	gttcattgct	480
gaagcctttc	cttcacccag	cggagcaact	tgattttcta	caacttcctc	catcagagcc	540
acaagagtat	gggatatgga	gaccactacg	tcgatata			578

<210> 224

<211> 345

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(345)

<223> n = A,T,C or G

<400> 224

tgtatcgacg	tantgggtctc	ccaaggtgct	gggattgcag	gcatgagcca	ccactcccag	60
gtggatcttt	ttctttatac	ttacttcatt	aggtttctgt	tattcaagaa	gtgtagtggt	120
aaaagtcttt	tcaatctaca	tggttaaata	atgatagcct	gggaaataaa	tagaaatttt	180
ttctttcctc	tttaggttga	ataaagaaac	agaaaaata	gaacatactg	aaaataatct	240
aagttccaac	catagaagaa	ctgcagaaga	aatgaagaaa	gtgatgatga	tttagatttt	300
gatattgatt	tagaagacac	aggaggagac	cactacgtcg	atata		345

<210> 225

<211> 347

<212> DNA

<213> Homo sapien

<400> 225

AI
cm.t

tgtatcgacg tagtgggtctc caaactgagg tatgtgtgcc actagcacac aaagccttcc 60
 aacaggggacg caggcacagg cagttttaaag ggaatctgtt tctaaattaa tttccacett 120
 ctctaagtat tctttcctaa aactgatcaa ggtgtgaagc ctgtgctctt tcccaactcc 180
 cctttgacaa cagccttcaa ctaacacaag aaaaggcatg tctgacactc ttcctgagtc 240
 tgactctgat acgttgttct gatgtctaaa gagctccaga acaccaaagg gacaattcag 300
 aatgctgggtg tataacagac tccaatggag accactacgt cgataca 347

<210> 226
 <211> 281
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1) ... (281)
 <223> n = A,T,C or G

<400> 226
 aggnngnggga ntgtatcgac gtagtgggtct cccaacagtc tgtcattcag tctgcagggtg 60
 tcagtgtttt ggacaatgag gcaccattgt cacttattga ctctcagct ctaaagtctg 120
 aaattaaatc ttgtcatgac aagtctggaa ttcctgatga ggttttacaa agtatttttg 180
 atcaatactc caacaaatca gaaagccaga aagaggatcc tttcaatatt gcagaaccac 240
 gagtggattt acacacctca ggagaccact acgtcgatac a 281

<210> 227
 <211> 3646
 <212> DNA
 <213> Homo sapien

<400> 227
 gggaaacact tcctcccagc cttgtaaggg ttggagccct ctccagtata tgctgcagaa 60
 tttttctctc ggtttctcag aggattatgg agtccgcctt aaaaaaggca agctctggac 120
 actctgcaaa gtagaatggc caaagtttgg agttgagtgg ccccttgaag ggtcactgaa 180
 cctcacaatt gttcaagctg tgtggcgggt tgttactgaa actcccggcc tccctgatca 240
 gtttccctac attgatcaat ggctgagttt ggtcaggagc accccttccg tggctccact 300
 catgcaccat tcataatttt acctccaagg tcctcctgag ccagaccgtg ttttgcctc 360
 gaccctcagc cggttcggct cgccctgtac tgectctctc tgaagaagag gagagtctcc 420
 ctcacccagt ccacccgct taaaaccagc ctactccctt agggtcaccc catgtctcct 480
 cggctatgtc ccctgtaggc tcatcaccca ttgectcttg gttgcaaccg tgggtgggagg 540
 aagtagcccc tctactacca ctgagagagg cacaagtccc tctgggtgat gagtgctcca 600
 ccccttctcct ggtttatgtc cttctttct acttctgact tgtataattg gaaaacccat 660
 aatcctccct tctctgaaaa gcccaggct ttgacctcac tgatggagtc tgtactctgg 720
 acacattggc ccacctggga tgactgtcaa cagctccttt tgacctttt cacctctgaa 780
 gagagggaaa gtatccaaag agaggccaaa aagtacaacc tcacatcaac caataggccg 840
 gaggaggaag ctagaggaat agtgattaga gacccaattg ggacctaatt gggacccaaa 900
 tttctcaagt ggagggagaa cttttgacga tttccaccgg tatctcctcg tgggtattca 960
 gggagctgct cagaaacctc taaacttgct taaggcgact gaagtcgtcc aggggcatga 1020
 tgagtcacca ggagtgtttt tagagcacct ccaggaggct tatcagattt acaccccttt 1080
 tgacctggca gccccgaaa atagccatgc tottaatttg gcatttgtgg ctcaggcagc 1140
 cccagatagt aaaaggaaa tccaaaaact agagggattt tgctggaatg aataccagtc 1200
 agctttttaga gatagcctaa aagggtttttg acagtcaaga ggttgaaaaa caaaaacaag 1260

AI
 Cmt

cagctcaggc agctgaaaaa agccactgat aaagcctcct ggagtatcag agtttactgt 1320
 tagatcagcc tcatttgact tccccccca catggtgttt aaatccagct acactacttc 1380
 ctgactcaaa ctccactatt cctgttcatg actgtcagga actggttgaa actactgaaa 1440
 ctggccgacc tgatcttcaa aatgtgcccc taggaaaggt ggatgccacc atgttcacag 1500
 acagtagcag cttcctcgag aagggactac gaaaggccgg tgcagctgtt accatggaga 1560
 cagatgtgtt gtgggctcag gctttaccag caaacacctc agcacaaaag gctgaattga 1620
 tcgcccacac tcaggctctc cgatggggta aggatattaa cgtaaactac gacagcaggt 1680
 acgcctttgc tactgtgcat gtacgtggag ccatctacca ggagcgtggg ctactcacct 1740
 cagcaggtgg ctgtaatcca ctgtaaagga catcaaaagg aaaacacggc tgttgcccgt 1800
 ggtaaccaga aagctgattc agcagctcaa gatgcagtgt gactttcagt cagcctcta 1860
 aacttgctgc ccacagtctc ctttccacag ccagatctgc ctgacaatcc cgcatactca 1920
 acagaagaag aaaactggcc tcagaactca gagccaataa aaatcaggaa ggttggtgga 1980
 ttcttctcga ctctagaatc ttcatacccc gaactcttgg gaaaacttta atcagtcacc 2040
 tacagtctac caccatttta ggaggagcaa agctacctca gtcctccgg agcgtttta 2100
 agatccccc tcttcaaagc ctaacagatc aagcagctct ccggtgcaca acctgcgcc 2160
 aggtaaatgc caaaaaaggt cctaaaccca gccaggcca ccgtctccaa gaaaactcac 2220
 caggagaaaa gtgggaaatt gactttacag aagtaaaacc acaccgggt gggtaaaat 2280
 accttctagt actggtagac accttctctg gatggactga agcatttgct accaaaaacg 2340
 aaactgtcaa tatggtagt aagtttttac tcaatgaaat catccctcga catgggctgc 2400
 ctgtttgcca tagggctcga taatggaccg gccttcgct tgtctatagt ttagtcagtc 2460
 agtaaggcgt taaacattca atggaagctc cattgtgct atcgaccca gagctctggg 2520
 caagtagaac gcatgaactg caccctaaaa aacactctta caaaattaat cttagaaacc 2580
 ggtgtaaatt gtgtaagtct ccttccctta gccctactta gagtaagggt cacccttac 2640
 tgggctgggt tcttaccttt tgaaatcatg tatgggaggg tgcctgctat cttgcctaag 2700
 ctaagagatg cccaattggc aaaaatatca caaactaatt tattacagta cctacagtct 2760
 cccaacagg tacaagatat catcctgcca cttgttcgag gaacccatcc caatccaatt 2820
 cctgaacaga cagggccctg ccattcattc ccgccagggt acctgttggt tgttaaaaag 2880
 ttccagagag aaggactccc tctgtcttgg aagagacctc acaccgtcat cagcatgcca 2940
 acggctctga aggtggatgg cattcctgcg tggattcacc actcccgcat caaaaaggcc 3000
 aacagagccc aactagaaac atgggtcccc agggctgggt caggccccctt aaaactgcac 3060
 ctaagttggg tgaagccatt agattaattc tttttcttaa ttttgtaaaa caatgcatag 3120
 cttctgtcaa acttatgtat cttaagactc aatataaccc cttgtttata actgaggaat 3180
 caatgatttg attcccccaa aaacacaagt ggggaatgta gtgtccaaacc tggtttttac 3240
 taaccctgtt tttagactct ccttttcctt taatcaactc gcttgtttcc acctgaattg 3300
 actctccctt agctaagagc gccagatgga ctccatcttg gctctttcac tggcagccgc 3360
 ttctcaagg acttaacttg tgcaagctga ctcccagcac atccaagaat gcaattaact 3420
 gataagatac tgtggcaagc tatatccgca gttcccagga attcgtccaa ttgatcacag 3480
 cccctctacc cttcagcaac caccaccctg atcagtcagc agccatcagc accgaggcaa 3540
 ggccctccac cagcaaaaag attctgactc actgaagact tggatgatca ttagtatttt 3600
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<210> 228

<211> 419

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(419)

<223> n = A,T,C or G

AI
Comit

<400> 228

taagagggtgta	caagatctaa	gcacagccgt	caatgcagaa	cacagaacgt	agcctggtaa	60
gtgtgttaag	agtgggaatt	tttggagtac	agagtaaggc	acctaaccct	agctgggggt	120
tggtgacggg	cccagatggc	ttacagaaga	aagtgtcctg	agatgagttt	ttaagaatga	180
ataaggatag	acacaagtga	ggactgactt	ggcagtgggtg	aatgggtgggt	ggcaaaaaac	240
ttcgcatgta	tggaaactgc	acgtacagga	atgaagaatg	agactgtgtg	gtgttttaatg	300
agctgcaaat	actaatTTTA	tctgaaagt	tttgaagagt	taactaaaaa	gtatttttta	360
gtaaggaaat	aaccctacat	ttcagggtta	ttgtttgttt	anatattgaa	ggtgcccaa	419

<210> 229

<211> 148

<212> DNA

<213> Homo sapien

<400> 229

aagagggtac	ctgtatgtag	ccatgggtggc	aatgagagac	tgattactac	ctgctggaga	60
ttgtttaagt	gagttaatat	attaaggata	aaggaggcca	ggttttttga	ctgttgagga	120
aggaaattac	agatattgaa	ggtcccaa				148

<210> 230

<211> 257

<212> DNA

<213> Homo sapien

<400> 230

taagagggtgta	cmaaaaaaaaa	aaaatagaac	gaatgagtaa	gacctactat	ttgatagtac	60
aacagggtga	ctatagtcaa	tgataactta	attatacatt	taacatagag	tgtaattgga	120
ttgtttgtaa	ctcgaaggat	aaatgcttga	gaggatggat	acccatttct	ccatgatgta	180
cttatttcac	attacatgcc	tgtatcaaag	catctcatat	accctataaa	tatgtacacc	240
tactatgtac	cctctta					257

<210> 231

<211> 260

<212> DNA

<213> Homo sapien

<400> 231

taagagggtgta	cgggtatttg	ctgatgggat	ttttttttct	ttctttttct	ttggaaaaca	60
aaatgaaagc	cagaacaaaa	ttattgaaca	aaagacaggg	actaaatctg	gagaaatgaa	120
gtcccctcac	ctgactgcca	tttcattcta	tctgaccttc	cagtctaggt	taggagaata	180
gggggtggag	gggattaatc	tgatacaggt	atatttaaag	caactctgca	tgtgtgccag	240
aagtcctatg	taccctctta					260

<210> 232

<211> 596

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(596)

AI
com't

<223> n = A,T,C or G

<400> 232

tgctcctctt	gccttaccac	ccacaaatta	gaaccataat	gagatgtcac	ctcatacctg	60
gtgggattaa	cattatttaa	aaaatcagaa	gtattgacaa	ggatgtgaag	aaattagaac	120
atctgtgcac	tgttggtggg	aatgtaaaaa	aggtgtggcc	actatgggta	acagcatgaa	180
ggttcctcaa	aaaaaatttt	ttttaatcta	ctctatgata	gatcttgagg	ttgtttatgc	240
aaaagaactg	aaatcaggat	tttgaggaaa	tattcacatt	cccacatcca	tttctgcttt	300
atcataata	ctcaagagat	ggaaacaacc	taaatgtcca	tcccgggatg	aatggataaa	360
cacagtgtgg	tatatgcata	caatggaata	ttatttagtc	tttaaaaaga	aaaattctat	420
catatactac	aacttanatn	aaccttgagg	acacaatgct	nagtgaata	agccacggaa	480
ggacgaatac	tgcattattc	ccttatatga	agtatctaaa	gtgggtcaaac	tcttanagca	540
naaagtaaaa	atgggtgggt	gccanacagt	tgggttaggcn	agaaganaan	cctant	596

<210> 233

<211> 96

<212> DNA

<213> Homo sapien

<400> 233

tcttctgaag	acctttcgcg	actcttaagc	tctgtggttg	taaggcaaga	ggagcggttg	60
taaggcaaga	ggagcggttg	taaggcaaga	ggagca			96

<210> 234

<211> 313

<212> DNA

<213> Homo sapien

<400> 234

tgtaagtcca	gcagtgtgat	gataaaaactt	gaatggatca	atagttgctt	cttatggatg	60
agcaaagaaa	gtagtttctt	gtgatggaat	ctgctcctgg	caaaaatgct	gtgaacgttg	120
ttgaaaagac	aacaaaagag	ttagagtagt	acataaaattt	agaatagtag	ataaaacttag	180
aatagtagat	aaacttagta	cataaaataat	gcacgaagca	ggggcagggc	ttgagagaa	240
tgacttcaat	ttggaaagag	tatctactgt	aggttagatg	ctctcaaaca	gcacacact	300
gctcgactta	caa					313

<210> 235

<211> 550

<212> DNA

<213> Homo sapien

<400> 235

aacgaggaca	gatccttaaa	aagaatgttg	agtgaaaaaa	gtagaaaata	agataatctc	60
caaagtccag	tagcattatt	taaacatttt	taaaaaatac	actgataaaa	attttgtaca	120
tttcccaaaa	atacatatgg	aagcacagca	gcatgaatgc	ctatgggrtt	gaggataggg	180
gttgggagta	gggatgggga	taaaggggga	aaataaaaacc	agagaggagt	cttacacatt	240
tcatgaacca	aggagtataa	ttatttcaac	tatttgtacc	wgaagtccag	aaagagtggg	300
ggcagaaggg	ggagaagagg	gcgaagaaac	gtttttggga	gaggggtccc	asaagagaga	360
ttttcgcat	gtggcgctac	atacgttttt	ccaggatgcc	ttaagctctg	caccctatct	420
ttctcatcac	taatattaga	ttaaaccctt	tgaagacagc	gtctgtgggt	tctctacttc	480
agctttccct	cgtgtctctg	cacacagtag	ctgtttttaca	aggggtgaac	tgactgaagt	540

AI
cm.t

gagattatttc

550

<210> 236

<211> 325

<212> DNA

<213> Homo sapien

<400> 236

tagactgact	catgtccct	accagagtag	ctagaattaa	tagcacaagc	ctctacaccc	60
aggaactcac	tattgaatac	ataaatggaa	tttattcagc	cttaaaaagt	ttggaaggaa	120
attctgacat	atgctaaaac	atggatgaac	cttgaagact	ttatgataag	taaaagaagc	180
cagtcataaa	aggaaaaata	ttgcatgatt	ccacttatat	gaggtaacct	gagtagtcaa	240
tttcatagaa	acacaaaata	gaatggtgtt	tgccagggct	tttgaggaaa	agggaaatgac	300
aagttagggg	acatgagtca	gtcta				325

<210> 237

<211> 373

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1) ... (373)

<223> n = A,T,C or G

<400> 237

tagactgact	catgtccct	atctactcaa	catttccact	tgaagtctga	taggcatctc	60
agacttatct	tgtcccaaag	caaactcttt	atttcttttc	atcctagtct	ttatttcttg	120
tgctgtctta	cccatctcaa	aagagtgcc	aaatccacca	agttgctgaa	acagaaatct	180
aagaaatctc	cttgattctt	ctttttccca	tctacttcac	ttctaattca	ttagtaata	240
atctgtttca	gaaaaccaa	cacctcatgt	tctactcat	aagggggagt	tgaacaatga	300
gaacacacag	acacagggag	gggaacatca	cacaccacgg	cccgtcaggg	agtangggac	360
atgagtcagt	cta					373

<210> 238

<211> 492

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1) ... (492)

<223> n = A,T,C or G

<400> 238

tagactgact	catgtccct	ataatgctcc	caggcatcag	aaagcatctc	aaactggagc	60
tgacaccatg	gcagaggttt	caggtaagtc	acaaaagggg	tcctaaagaa	tttgcctca	120
atatcagagt	gattagaaga	agtggacaga	gctacccaag	ttaaacatat	gcgagataaa	180
aaaaatatgg	cacttgtgaa	cacacactac	aggaggaaaa	taaggaacat	aatagcatat	240
tgtgctatta	tgatgatgaa	gaacctctct	anaagaaaac	ataaccaag	aaacaaagaa	300
aattcctgcn	aatgtttaat	gctatagaag	aaattaacaa	aaacatatat	tcaatgaatt	360

AI
omit

cagaaaagtt agcaggtcan aagaaaacaa atcaaagacc agaataatcc catttttagat 420
 tgctgagtaa actanaacag aaagaatacc actggaaatt gaattcctac gtangggaca 480
 tgantcanc ta 492

<210> 239
 <211> 482
 <212> DNA
 <213> Homo sapien
 <220>
 <221> misc_feature
 <222> (1) ... (482)
 <223> n = A,T,C or G

AI
 cm.t

<400> 239
 tggaaagtat ttaatgatgg gcaacttget gtttacttcc tacatatccc atcatcttct 60
 gtattttttt aaataacttt tttttggatt tttaaagtaa ccttattctg agaggtaaca 120
 tggattacat acttctaagc cattaggaga ctctatgtta aaccaaagg aaatgttact 180
 agatcttcat ttgatcaata ggatgtgata atcatcatct ttctgctcta atggaaaagt 240
 actanaaaca tggaaccata atcttagatg aacaacgtta gaatttgcac taattctacg 300
 gaatttcagt aattcggcaa atgtcgggca gtgacacaac atttcatgac ggggacgcat 360
 ctaccaactt ctggcgataa gggccaccct tccctctgta cttacagtcc catttcatac 420
 acagtctttg attaaatatt cacatttttt ctctacctaa agaccttcaa gaccagtacg 480
 ta 482

<210> 240
 <211> 519
 <212> DNA
 <213> Homo sapien
 <220>
 <221> misc_feature
 <222> (1) ... (519)
 <223> n = A,T,C or G

<400> 240
 tgtatcgacg tagtgggtctc cccatgtgat agtctgaaat atagcctcat gggatgagag 60
 gctgtgcccc agcccgacac ccgtaaaggg tctgtgctga ggtggattag taaaagagga 120
 aagccttgca gttgagatag aggaagggca ctgtctctctg cctgcccctg ggaactgaat 180
 gtctcgggtat aaaacccgat tgtacatttg ttcaattctg agataggaga aaaaccaccc 240
 tatggcgaggga ggcgagacat gttggcagca atgctgcctt gttatgcttt actccacaga 300
 tgtttgggcg gagggaaaaca taaatctggc ctacgtgcac atccaggcat agtacctccc 360
 tttgaactta attatgacac agattccttt getcacatgt ttttttctg accttctcct 420
 tattatcacc ctgctctcct accgcattcc ttgtgctgag ataatgaaaa taatatcaat 480
 aaaaacttga nggaactcgg agaccactac gtcgataca 519

<210> 241
 <211> 771
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(771)
 <223> n = A,T,C or G

<400> 241

tgtatcgacg tagtgggtct cactcccggc ttgacggggc tgctatctgc cttccaggcc 60
 actgtcacgg ctcccgggta gaagtcactt atgagacaca ccagtgtggc cttgttggtc 120
 tgaagctcct cagaggaggg tgggaacaga gtgacggagg gggcagcctt gggctgacct 180
 aggacgggtca gcttgggtccc tccgccaaac acgagagtgc tgctgcttgt atatgagctg 240
 cagtaataat cagcctcgtc ctcagcctgg agcccagaga tggtcaggga ggccgtgttg 300
 ccanacttgg agccagagaa gcgattagaa acccctgagg gccgattacc gacctcataa 360
 atcatgaatt tgggggcttt gcctgggtgc tgttggtaac angagacatt attataacca 420
 ccaacgtcac tgctgggtcc antgcaggga aaatggttga tcnactgtc caagaaaacc 480
 actacgtcca taccaatcca ctaattgccn gccgcctgca ggttcaacca tattggggaa 540
 naactcccn cgcgcgtttg ggattgncat naacctttga aattttttcc tattanttgt 600
 cccctaaaa taaacctttg ggcnttaate cattgggtcc atancttntt tncccggttt 660
 ttaaaanttg tttatccgc cncnctttt ccccccaac tttccaaaac ccgaaacct 720
 tnaaattnt tnaaacctg ggggggtccc mnaattnnan ttnaanctnc c 771

<210> 242
 <211> 167
 <212> DNA
 <213> Homo sapien

<400> 242

tgggcacctt caatatcggg ctcacgata acatcacgct gctgatgctg ctgttgctgg 60
 tctctcttag gaacctctgg attttcaaat tctttgagga attcatccaa attatctgcc 120
 tctcctcctt tctcctttt tetaaggtct tctggtacaa gcggtca 167

<210> 243
 <211> 338
 <212> DNA
 <213> Homo sapien

<400> 243

ttgggcacct tcaatatcta ctgatctaaa tagtgtggtt tgaggcctct tgttcctggc 60
 taaaaatcct tggcaagagt caatctccac ttacaaatag aggtaaaaat cttacaatgg 120
 atattcttga caaagctagc atagagacag caattttaca caaggatatt ttcacctgtt 180
 taataacagt ggttttctta caccatagg gtgccaccaa gggaggagtg cacagttgca 240
 gaaacaaatt aagatactga agacaacact acttaccatt tcccgtatag ctaaccacca 300
 gttcaactgt acatgtatgt tcttatgggc aatcaaga 338

<210> 244
 <211> 346
 <212> DNA
 <213> Homo sapien

<400> 244

tttttggtct ccatacagca cactctcatg ggaaatgtct gttctaaggt caaccataa 60
 tgcaaaaatc atcaatatac ttgaagatcc ccgtgtaagg tacaatgtat ttaatatatt 120

AI
 cm.t

cactgatatac attgatccaa taccagtttt agtctggcat tgaatcaaact cactgttttt 180
 gttgtataaaa aagagaaata tttagcttat atttaagtac catattgtaa gaaaaaagat 240
 gcttatctttt acatgctaaa atcatgatct gtacattggc gcagtgaata ttactgtaaa 300
 agggaagaag gaatgaagac gagctaagga tattgaaggt gcccaa 346

<210> 245
 <211> 521
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1) ... (521)
 <223> n = A,T,C or G

<400> 245
 accaatccca caccgatact gagggacaag tatatcatcc catttcatcc ctacagcagc 60
 aacttcatga ggcaggagtt attagtccca ttttacagaa gaggaaactg agacttaggg 120
 agatcaagta atttgcacag gtgcacaaat tagtgataga gccagggctt gaagcgacgt 180
 ctgtcttaag ccaatgaccc ctgcagatta ttagagcaac tgttctccac aacagtgtaa 240
 gcctcttgct anaagctcag gtccacaagg gcagagattt ttgtctgttt tgctcattgc 300
 tccttcccca ttgcttagag caggggtctgc cacgaancag gttctcaatg catagttatt 360
 aaatgtatat aagagcaaac atatgttaca gagaactttc tgtatgcttg tcacttacat 420
 gaatcacctg tganatgggt atgcttggtc cccantgttg cagatnaaga tattgaangt 480
 gcccaaatac ctanttgagg gcgcctgcan gtccancata t 521

<210> 246
 <211> 482
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1) ... (482)
 <223> n = A,T,C or G

<400> 246
 tggaaaccaat ccaaataccc atcaatgata gactggataa agaaaatttg gcacatgttc 60
 accatgaaat actatgcagc cataaaaaag gatgagttca tatectttgc agggacatgg 120
 atgaagctgg agaccatcat tctcagcaaa ctaacaaggg aacagaaaac caaacactgc 180
 atgttctcac tcttaagtgg gagctgaaca atgagaacac atggacacag ggaggggaac 240
 atcacacagt ggggcctgct ggtgggtagg ggtctagggg agggatagca ttaggagaaa 300
 tacctaattg agatgacggg ttgatgggtg cagcaaacca ccatgacacg tgtataccta 360
 tgtaacaaac ctgcatgttc tgcacatgta cccagaact taaagtgtta ataaaaaat 420
 taagaaaaaa gttaagtatg tcatagatac ataaaatatt gtanatatg aaggtgcccc 480
 aa 482

<210> 247
 <211> 474
 <212> DNA
 <213> Homo sapien

AI
 emit

<220>
 <221> misc_feature
 <222> (1)...(474)
 <223> n = A,T,C or G

<400> 247
 ttcgatacag gcacagagta agcagaaaaa tggctgtggt ttaaccaagt gaggtaacagtt 60
 aagtgcagaga ggggcagaga agacaagggc atatgcaggg ggtgattata acaggtgggt 120
 gtgctgggaa gtgagggtac tcggggatga ggaacagtga aaaagtggca aaaagtggta 180
 agatcagtga attgtacttc tccagaattt gatttctggn ggagtcaaata aactatccag 240
 tttgggggtat catanggcaa cagttgaggt ataggaggta gaagtcncag tgggataatt 300
 gaggttatga anggtttggt actgactggt actgacaang tctgggttat gaccatggga 360
 atgaatgact gtanaagcgt anaggatgaa actattccac ganaaagggg tccnaaaact 420
 aaaaannnaa gnnnnngggg aatattattt atgtggatat tgaangtgcc caaa 474

<210> 248
 <211> 355
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(355)
 <223> n = A,T,C or G

<400> 248
 ttcgatacag gcaaacaatga actgcaggag ggtggtgacg atcatgatgt tgccgatgggt 60
 ccggatggnc acgaagacgc actggancac gtgcttacgt ccttttgctc tgttgatggc 120
 cctgagggga cgcaggaccc ttatgacctt cagaatcttc acaacgggag atggcactgg 180
 attgantccc antgacacca gagacacccc aaccaccagn atatcantat attgatgtag 240
 ttctgttaga nggccccctt gtggaggaaa gctccatnag ttgggtcatct tcaacaggat 300
 ctcaacagtt tccgatggct gtgatgggca tagtcatant taacctgtgn tcgaa 355

<210> 249
 <211> 434
 <212> DNA
 <213> Homo sapien

<400> 249
 ttggattggt cctccaggag aacaagggga aaaaggtgac cgagggtcc ctggaactca 60
 aggatctcca ggagcaaaag gggatggggg aattcctggt cctgctggtc ccttaggtcc 120
 acctggtcct ccaggcttac caggtcctca aggccaaaag ggtaacaaag gctctactgg 180
 accgctggc cagaaagggtg acagtgggtc tccagggcct cctgggcctc caggtccacc 240
 tggatgaagtc attcagcctt taccaatctt gtctctccaaa aaaacgagaa gacatactga 300
 aggcattgcaa gcagatgcag atgataatat tcttgattac tcggatggaa tggagaagaa 360
 atttggttcc ctcaattccc tgaacaaga catcgagcat atgaaatttc caatgggtac 420
 tcagaccaat ccaa 434

<210> 250
 <211> 430

AI
 cm't

<212> DNA
 <213> Homo sapien

 <220>
 <221> misc_feature
 <222> (1)...(430)
 <223> n = A,T,C or G

<400> 250
 tggattggtc acatggcaga gacaggattc caaggcagtg agaggaggat acaatgcttc 60
 tcactagtta ttattattta ttttattttt gagatgaagt ctcgctttgt ctcccaggct 120
 ggagagcggg ggtgcgatct tggctctctg caacccccgc ctcaagcaat tctcctgtct 180
 tagcctcgcg ggtagatgga attacaggcg cccaccgcca tgcccaacta atttttttgt 240
 gtcttcagta gagacagggt ttgcgcattg tgggcaggct ggtcttgaac tctgacctc 300
 nagtgatctg cctcctcggg cctcacaag tgctggaatt acaggcatgg gctgctgcac 360
 ccagtcaact tctcactagt tatggcctta tcattttcac cacattctat tggcccaaaa 420
 aaaaaaaaaa 430

<210> 251
 <211> 329
 <212> DNA
 <213> Homo sapien

<400> 251
 tgggtactcca ccatyatggg gtcaaccgcc atcctcgccc tctcctggc tgttctccaa 60
 ggagtctgtg ccgaggtgca gctgrtgag tctggagcag aggtgaaaaa gtccggggag 120
 tctctgaaga tctcctgtaa gggttctgga tacaccttta agatctactg gatcgctgg 180
 gtgcgccagt tgcccgggaa aggctggag tggatggggc tcatctttcc tgatgactct 240
 gataccagat acagcccgtc cttccaaggc caggtcacca tctcagtcga taagtccatc 300
 agcaccgcct atctgcagtg gactacca 329

<210> 252
 <211> 536
 <212> DNA
 <213> Homo sapien

<400> 252
 tgggtactcca ctccagccaa ccttaattaa gaattaagag ggaacctatt actattctcc 60
 caggctcctc tgccttaacc aggccttctg gacagtatta gaaaaggatg tctcaacaag 120
 tatgtagatc ctgtactggc ctaagaagtt aaactgagaa tagcataaat cagaccaaac 180
 ttaatggtcg ttgagacttg tgcctggag cagctgggat aggaaaactt ttgggcagca 240
 agaggaagaa ctgcctggaa gggggcatca tgttaaaaaa tacaagggga acccacacca 300
 ggcctccttc ccagctctca gcttagagta ttagcatttc tcagctagag actcacaact 360
 tcttgcctta gaatgtgcca ccggggggag tccctgtggg tgatgagget ctcaagagtg 420
 agagtggcat cctatcttct gtgtgcccac aggagcctgg cccgagactt agcaggtgaa 480
 gtttctggtc caggctttgc ccttgactca ctatgtgacc tctggtggag taccaa 536

<210> 253
 <211> 507
 <212> DNA
 <213> Homo sapien

AI
 cm.t

<220>
 <221> misc_feature
 <222> (1)...(507)
 <223> n = A,T,C or G

<400> 253
 ntgttgcgat cccagtaact cgggaagctg aggcgggagg atcacctgag ctcaggaggt 60
 tgaggccgca gtgagccggg accacgccac tacactccag cctggggcat agagtggagac 120
 cctccaagac agaaaagaaa agaaaggaag ggaaagggaa agggaaaagg aaaaggaaaa 180
 ggaaaaggaa aaggaaaaga caagacaaaa caagacttga atttggatct cctgacttca 240
 attttatgtt ctttctacac cacaattcct ctgcttacta agatgataat ttagaaaccc 300
 ctggttccat tctttacagc aagctggaag tttggtcaag taattacaat aatagtaaca 360
 aatttgaata ttatatgcca ggtgtttttc attcctgctc tcacttaatt ctcaccactc 420
 tgatataaat acaattgctg cggggtgtgg tggtcatgac ctgtaatccc ggcactttgg 480
 gagaccgagg tgggcggats gcaacaa 507

<210> 254
 <211> 222
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(222)
 <223> n = A,T,C or G

<400> 254
 ttggattggg cactgtgagg aagccaaatc ggatccgaga gtctttttct aaaggccagt 60
 actggccaca ctttctcctg ccgccttctt caaagctgaa gacacacaga gcaaggcgct 120
 tctgttttac tccccaatgg taactccaaa ccatagatgg ttagctnccc tgctcatctt 180
 tccacatccc tgctattcag tatagtccgt ggaccaatcc aa 222

<210> 255
 <211> 463
 <212> DNA
 <213> Homo sapien

<400> 255
 tgttgcgac cataaatgct gaaatggaaa taaacaacat gatgagggag gattaagttg 60
 gggagggagc acattaaggt ggccatgaag tttgttgga gaagtgactt ttgaacaagg 120
 ccttgggtgtt aagagctgat gagagtgtcc cagacagagg ggccactggg acaatagacg 180
 agatgggaga gggcttgga ggtgtgcgaa ataggaagga gtttgttctg gtatgagtct 240
 agtgaacaca gaggcgagag gccctggtgg gtgcagctgg agagttagtc agaataacat 300
 taggcctgt gggggactgt agactgtcag caataatcca cagtttggat tttattctaa 360
 gagtgatggg aagccgtgga aaggggtta agcaaggagt gaaattatca gatttacagt 420
 gataaaaata aattgggtctg gctactgggg aaaaaaaaaa aaa 463

<210> 256
 <211> 262
 <212> DNA

AI
 cm't

<213> Homo sapien

<400> 256

ttggattggt caacctgctc aactctacyt ttcctccttc ttcctaaaaa attaatgaat	60
ccaatacatt aatgccaaaa cccttgggtt ttatcaatat ttctgttaaa aagtattatc	120
cagaactgga cataatacta cataataata cataacaacc ccttcatctg gatgcaaaca	180
tctattaata tagcttaaga tcactttcac tttacagaag caacatcctg ttgatgttat	240
tttcatgttt ggaccaatcc aa	262

<210> 257

<211> 461

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(461)

<223> n = A,T,C or G

<400> 257

gnngnnnnnn nnncaattcg actcngttcc cntggtance ggtcgacatg gccgcgggat	60
taccgcttgt nctgggggt gtatggggga ctatgaccgc ttgtagctgg ggggtgatgg	120
gggactatga ccgctttag mtggkgggtgt atgggggact atgaccgctt gtcgggtggt	180
cggataaacc gacgcaaggg acgtgatcga agctgcgttc ccgctctttc gcatcggtag	240
ggatcatgga cagcaatata cgcattcgyc tgaaggcgtt cgaccatcgc gtgctcgatc	300
aggcgaccgg cgacatcgcc gacaccgcac gccgtaccgg cgcgctcatc cgcgtccga	360
tcccgttcc cagcgcgcatc gagaagttca cgggtcaaccg tggcccgac gtcgacaaga	420
agtcgcgca gcagttcgag gtgcgtacct acaagcggtc a	461

<210> 258

<211> 332

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(332)

<223> n = A,T,C or G

<400> 258

tgaccgcttg tagctggggg tgtatggggg actacgaccg cttgtagctg ggggtgtatg	60
ggggactatg accgcttgta gctgggggtg tatgggggac tatgaccgct ttagctggg	120
ggtgtatggg ggactaggac cgctttagc tgggggtgta tgggggacta tgaccgcttg	180
tagctggggg tgtatggggg actacgaccg cttgtagctg ggggtgtatg ggggactatg	240
accgcttgta nctgggggtg tatgggggac tatgaccgct tgtgctgcct gggggatggg	300
aggagagttg tggttgggga aaaaaaaaaa aa	332

<210> 259

<211> 291

<212> DNA

<213> Homo sapien

AI
cm.t

<220>
 <221> misc_feature
 <222> (1)...(291)
 <223> n = A,T,C or G

<400> 259
 taccgcttgt gaccgcttgt gaccgcttgt gaccgcttgt gaccgcttgt gaccgcttgt 60
 gaccgcttgt gaccgcttgt gaccgcttgt gaccgcttgt gaccgcttgt gaccgcttgt 120
 gaccgcttgt gaccgcttgt nacnggggggt gtctggggga ctatgannga ntgtnactgg 180
 ggggtgtctgg gggngctatga nngantgtna cnggggggtgt ctggggggact atganngact 240
 gtgcnnoctg ggggacnga ggagantngn ggntagnat ggttngggan a 291

<210> 260
 <211> 238
 <212> DNA
 <213> Homo sapien

<400> 260
 taagagggtta ctgggttaaaa tacaggaaat ctggggtaat gaggcagaga accaggatac 60
 tttgaggtca gggatgaaaa ctagaatddd tttctttttt tttgcctgag aaacttgctg 120
 ctctgaagag gccatgtat taattgcttt gatcttctct tttctacagc cctttcaagg 180
 gcagagccct ccttatctctg aaggaatctt atccttagct atagtatgta ccctctta 238

<210> 261
 <211> 746
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(746)
 <223> n = A,T,C or G

<400> 261
 ttgggcacct tcaatatcaa tagctaakat ttattgagtgt tttatcgtat cataaaacac 60
 tgtttctaagc ctttaaacgt actaatccat ttaattgctca taatcacttt agaagggtggg 120
 tactagtatt agtctcattt acagatgcaa catgcaggca cagagagggtt aattaacttg 180
 cccaaggtaa cacagctaag aaatagaaaa aatattgaat ctggaaagt gggcttcttg 240
 gtaaccaca gagtcttcaa tgagcctggg gcctcactca gtttgctttt acaaagcgaa 300
 tgagtaacat cacttaattc agtgagtagg ccaaattggag gtcagctacg agtttctgct 360
 gttcttgcag tggactgaca gatgtttaca acgtctggcc atcagtwaat ggactgatta 420
 tcattgggaw gtgggtgggc tgaatgttgg ccagtgaagt ttattcawgc catattttta 480
 tgtttaggat gacttttggc tggtcctagg gcaagctctg tctgscacgg aacacagaat 540
 wacacaggga cccctcaat ttctgggtgtg gctagaacca tgaaccactg gttgggggaa 600
 caagcggta aaacctaagt gcggccggct ggcagggtcc acccatatgg ggaaaactcc 660
 cnacgcgttt ggaatgcctn agctngaatt attctaana ttgtccnct aaaattagcc 720
 tgggcgttaa tcanggtcn naagcc 746

<210> 262
 <211> 588

AI
 cm't

<212> DNA
 <213> Homo sapien

 <220>
 <221> misc_feature
 <222> (1)...(588)
 <223> n = A,T,C or G

<400> 262

tgaccgcttg	tcattctcaca	tgggggtcctg	cacgcttttg	cctttgtagg	aaacctgaca	60
tttgtctgtt	tcttctttct	cttttccttc	ccatatactc	ctaatttacg	tttgacttgt	120
ttgctgagga	ggcaggagct	agagactgct	gtgagctcat	aggggtggga	agtttatcct	180
tcaagtcccg	cccactcatc	actgcttctc	accttcccct	gaccaggctt	acaagtgggt	240
tcttgctgc	tttccctttg	gacccaacaa	gcccctgtaa	tgagtgtgca	tgactctgac	300
agctgtggac	tcagggtcct	tggctacagc	tgccatgtaa	aatatctcat	ccagttctcg	360
caaattgtta	aaataaccac	atttcttaga	ttccagtacc	caaatcatgt	ctttacgaac	420
tgctctcac	acccagaagt	ggcacaataa	ttcttgggga	attattactt	ttttttttct	480
ctctnttnc	gnnnngnnng	gnnnngccag	gaattaccac	nttggaagac	ctggccngaa	540
tttattatan	aggggagccg	attntttttc	ctaacacaaa	gcgggtca		588

<210> 263
 <211> 730
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(730)
 <223> n = A,T,C or G

<400> 263

tttttttttt	tttggcctga	gcaactgaaa	ttatgaaatt	tccatatact	caaaagagta	60
agactgcaaa	aagattaaat	gtaaaagttg	tcttgtatac	agtaatgttt	aagataccta	120
ttanatttat	aaatggaaaa	ttagggcatt	tggatataca	agttgaaaat	tcaggagtga	180
ggttgggctg	gctgggtata	tactgaaaac	tgtcagtaca	cagatgacat	ctaaaaccac	240
aaatctgggt	ttatttttagc	agtgatatgt	gtcactccca	caaaagcctt	cccaattggc	300
ctcagcatac	acaacaagtc	acctccccac	agccctctac	acataaacia	attccttagt	360
ttagttcagg	aggaaatgcg	cccttttctt	tccgctctag	gtgaccgcaa	ggcccagttc	420
tcgtcaccaa	gatgttaagg	gaagtctgcc	aaagaggcat	ctgaaaggaa	ataaggggaa	480
tgggagtgc	cacaaaggaa	agccaaggan	aaactttgga	gaccgtttct	aganccctgg	540
catttcacaa	caaaaactcng	gaacaaacct	tgtctcatca	atcatttaag	cccttcgttt	600
ggannagact	ttctgaactg	ggcgtgaac	ataancctca	ttgaatgtct	tcacagtctc	660
ccagctgaag	gcacaccttg	ggccagaagg	ggaatcttcc	aggtcctcaa	nacagggctc	720
gccctttgnc						730

<210> 264
 <211> 715
 <212> DNA
 <213> Homo sapien

<220>

AI
 cm't

<221> misc_feature
 <222> (1)...(715)
 <223> n = A,T,C or G

<400> 264
 tttttttttt tttggccagt atgatagtct ctaccactat attgaagctc ttaggtcatt 60
 tacacttaat gtggttatag atgctgttga gcttacttct accaccttgc tatttctccc 120
 gtctcttttt tgttcctttt ctcttctttt cctcccttat tttataattg aatttttttag 180
 gattctattt tatatagatt tatcagctat aacactttgt attcttttgt tttgtgggtc 240
 ttctgtcatt tcaatgtgca tcttaaactc atcacaatct attttcaa ataatcatat 300
 aaccttacat ataatgtaag aatctaccac catatatttc catttctccc ttccatccta 360
 tgtntgtcat attttttctt ttatatatgt tttaaagaca taatagtata tgggagggtt 420
 ttgcttaaaa tgtgatcaat attccttcaa ngaaacgtaa aaattcaaaa taaatntctg 480
 tttattctca aatnnaccta atatttccta ccatntctna tacntttcaa gaatctgaag 540
 gcattgggtt tttccggctt aagaacctcc tctaaagcac tctaagcaga attaagtctt 600
 ctgggagagg aattctccca agcttgggcc ttanantgta ctcentnang gttaaanttt 660
 ggccgggaaa tagaaattcc aagttaacag gntanttttt nttttnttn tcncc 715

<210> 265
 <211> 152
 <212> DNA
 <213> Homo sapien

<400> 265
 tttttttttt tttcccaaca caaagcacca ttatctttcc tcacaatttt caacatagtt 60
 tgattcccat gaagagggtta tgatttctaa agaaaacatg gctactatac tatcaatcag 120
 ggttaaattct tttttttttg agacggaggt ta 152

<210> 266
 <211> 193
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(193)
 <223> n = A,T,C or G

<400> 266
 taaactccgt ccccttctta atcaatatgg aggctaccca ctccacatta ccttcttttc 60
 aagggactgt ttccgtaact gttgtgggta ttcacgacca ggcttctaaa cctcttaaaa 120
 ctccccaatt ctggtgcaa cttggacaac atgctttttt tttttttttt ttttttttn 180
 gagacggagt tta 193

<210> 267
 <211> 460
 <212> DNA
 <213> Homo sapien

<400> 267
 tgttgcgatc ccttaagcat ggggtgctatt aaaaaaatgg tggagaagaa aatacctgga 60

AI
 unit

atttacgtct tatcttttaga gattgggaag accctgatgg aggacgtgga gaacagcttc 120
 ttcttgaatg tcaattccca agtaacaaca gtgtgtcagg cacttgctaa ggatcctaaa 180
 ttgcagcaag gctacaatgc tatgggattc tcccagggag gccaatcttct gagggcagtg 240
 gctcagagat gcccttcacc tcccatgac aatctgatct cggttggggg acaacatcaa 300
 ggtgtttttg gactccctcg atgccagga gagagctctc acatctgtga cttcatccga 360
 aaaacactga atgctggggc gtactccaaa gttgttcagg aacgcctcgt gcaagccgaa 420
 tactggcatg acccataaaa ggaggatgtg gatcgcaaca 460

<210> 268
 <211> 533
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(533)
 <223> n = A,T,C or G

<400> 268

tggtgcgacg cgttgataga atagcgacgt ggtaatgagt gcatggcacg cctccgactt 60
 accttcgccc gtgggggaccc cgagtacgtc tacggcgtcg tcacttagag taccctctgg 120
 acgcccgggc gcgttcgatt taccggaagc gcgagctgca gtgggcttgc gccccgggc 180
 aaattctttg ggggggtttaa ggccgcgggg aatttgaggt atctctatca gtatgtagcc 240
 aagttggaac agtcgccatt cccgaaatcg ctttctttga atccgcaccg cctccagcat 300
 tgccctattc atcaacctga aggcacgcat aagtgcgggt tgtgtcttca gcagctccac 360
 tccataacta gcgcgctcga cctcgtcttc gtacgcgcca ggtccgtgcg tgcgaattcc 420
 caactccggt gagttgcgca tttcaagttt cgaaactgtt cgccctccacn atttggcatg 480
 ttcacgcatg acacggaata aactcgtcca gtaccgggaa tgggatcgca aca 533

<210> 269
 <211> 50
 <212> DNA
 <213> Homo sapien

<400> 269

tttttttttt ttcgcctgaa ttagctacag atcctcctca caagcgggtca 50

<210> 270
 <211> 519
 <212> DNA
 <213> Homo sapien

<400> 270

tggtgcgacg caaataaccc accagcttct tgcacacttc gcagaagcca ccgtcctttg 60
 gctgagtcac gtgaacggtc agtgcaagca gccgcgtgcc agagcagagg tgcagcatgc 120
 tgcacaccag ctccgggctg acctcctcca gcaggatgga caggatggag ctgccgtacg 180
 tgtccaccac ctccctggcac tcttccgaca gggacttcgg cagcttcgag cacattttgt 240
 caaaagcgte gagtatttct ttctcagtct tggtgttgte aatcagcttg gtcacctcct 300
 tcaccaggaa ttcacacacc tcacagtaaa catcagactt tgctgggacc tegtgtctct 360
 taatgggctc caccagttcc agggcagggg tgacattctt ggaggccact ttggcgggga 420
 ccagagtctg catgggcatc tctttcacct catcacagaa cccaaccagc gcacagatct 480

AI
 cm. t

ccttgggttg catgtgcatc atcatctggg atcgcaaca

519

<210> 271
<211> 457
<212> DNA
<213> Homo sapien

<400> 271
 tttttttttt ttcgggcggc gaccggacgt gcactcctcc agtagcggct gcacgtcgtg 60
 ccaatggccc gctatgagga ggtgagcgtg tccggcttcg aggagttcca ccgggccgtg 120
 gaacagcaca atggcaagac cattttcgcc tactttacgg gttctaagga cgccgggggg 180
 aaaagctggg gccccgactg cgtgcaggct gaaccagtcg tacgagaggg gctgaagcac 240
 attagtgaag gatgtgtgtt catctactgc caagtaggag aagagcctta ttggaaagat 300
 ccaaataatg acttcagaaa aaacttgaaa gtaacagcag tgctacact acttaagtat 360
 ggaacacctc aaaaactggg agaatctgag tgtcttcagg ccaacctggg ggaaatgttg 420
 ttctctgaag attaagattt taggatggca atcaaga 457

<210> 272
<211> 102
<212> DNA
<213> Homo sapien

<400> 272
 tttttttttt ttgggcaaca acctgaatac cttttcaagg ctctggcttg ggctcaagcc 60
 cgcaggggaa atgcaactgg ccaggtcaca gggcaatcaa ga 102

<210> 273
<211> 455
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(455)
<223> n = A,T,C or G

<400> 273
 tttttttttt ttggcaatca acaggtttaa gtcttcggcc gaagttaatc tcgtgttttt 60
 ggcaatcaac aggtttaagt cttcggccga agttaatctc gtgttttttg caatcaacag 120
 gtttaagtct tcggccgaag ttaatctcgt gtttttggca atcaacaggt ttaagtcttc 180
 ggccgaagtt aatctcgtgt ttttggcaat caacaggttt aagtcttcgg ccgaagttaa 240
 tctcgtgttt ttggcaatca acaggtttaa gtcttcggcc gaagttaatc tcgtgttttt 300
 ggcaatcaag aggtttaagt cttcggccga agttaatctc gtgttttttg caatcaacag 360
 gtttaagtct tcggccgaan ttaatctcgt gtttttggca atcaacaggt ttaantcttc 420
 ggccgaagtt aatctcgtgt ttttggcaat caana 455

<210> 274
<211> 461
<212> DNA
<213> Homo sapien

AI
cm.t

<400> 274

tttttttttt	ttggccaata	cccttgatga	acatcaatgt	gaaaatcctc	ggtaaaatac	60
tggcaaacca	aatccagcag	cacatcaaaa	agcttatcca	ccatgatcaa	gtgggcttca	120
tccctgggat	gcaaggctgg	ttcaacataa	gaaaatcaat	aaatgtaatc	catcacataa	180
acagaaccaa	agacaaaaac	cacatgatta	tctcaataga	tgcagaaaag	gccttggaca	240
aattcaacag	cccttcacgc	taaacactct	taataaaacta	gatattgatg	gaatgtatct	300
caaaataata	agagctatct	atgacaaacc	cacagccaat	atcatactga	atgggcaaag	360
actggaagca	ttccctttga	aaactggcac	aagacaagga	tgccctctct	caccgctcct	420
attcaacata	gtattggaag	ttctggccag	ggcaatcaag	a		461

<210> 275

<211> 729

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(729)

<223> n = A,T,C or G

<400> 275

tttttttttt	ttggccaaca	ccaagtcttc	cacgtgggag	gttttattat	gttttacaac	60
catgaaaaca	taggaaggtg	gctgttacag	caaacatttc	agatagacga	atcggccaag	120
ctccccaac	cccaccttca	cagcctcttc	cacacgtctc	ccanagattg	ttgtccttca	180
cttgcaaatt	canggatgtt	ggaagtngac	atttnnagtn	gcnggaaccc	catcagtga	240
ncantaagca	gaantacgat	gactttgana	nacantgat	gaagaacacn	ctacnganaa	300
ccctttctnt	cgtgttanga	tctcnngtcc	ntcactaatg	cggccccctg	cnggtccacc	360
atttgggaga	actccccccn	cgttggatcc	ccccttgagt	ntcccattct	ngtcccccan	420
accngncttg	ngngncantn	cnnctcnca	ccntgtttcc	ctgnngtnaa	aatnngtttt	480
nccgcncccc	naattcccac	ccnaatcaca	gcgaancnng	aaggccttcn	naagtgttta	540
angcccngng	gtttcctcnt	ntanttgag	cctaccctcc	cncttnnnnt	tncgngttgg	600
tcgcgccttg	gnencgcctn	gttccctctt	nnggnnacia	cctngntcn	nggcncntcn	660
nnnctnttcc	tnnnactage	tngcctntcc	ncnccngngn	ncanngcaca	ttncncnnac	720
tntgtnncc						729

<210> 276

<211> 339

<212> DNA

<213> Homo sapien

<400> 276

tgacctgaca	tgtagtagat	acttaataaa	tatttgtgga	atgaatggat	gaagtggagt	60
tacagagaaa	aatagaaaag	tacaaattgt	tgtcagtgtt	ttgaaggaaa	attatgatct	120
ttcccaaagt	tctgacttca	ttctaagaca	gggttagtat	ctccatacat	aattttactt	180
gcttttgaaa	atcaaattgag	ataatctatt	tagattgata	atttatttag	actggctata	240
aactattaag	tgctagcaaa	tatacatctt	aatctcattt	tccacctctt	gtgatatagc	300
tatgtaggtg	ttgactttta	tggatgtcag	gtcaatccc			339

<210> 277

<211> 664

<212> DNA

Al
em.t

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(664)

<223> n = A,T,C or G

<400> 277

tgacctgaca tccataacaa aatctttctc cattatatctc ttctagggga atttcttgaa 60
aagcatccaa aggaaacaaa tgatggtaag accgtgccaa gtggggagca gacaccaaag 120
taagaccaca gattttacat tcaacaggta gctcacagta ctttgcccga cactgtgggc 180
agaaatagcc tcctaagtga agccctggct cagtattgcc atccaaatgc gccatgctga 240
aagaggggtt tgcacctcgg tcagatnaag aagcaatggt gtgctgagga aatcccatac 300
gaataagtga gcattcagaa cttgagctag caggaggagg actaagatga tgtgtgagca 360
actctttgta atggctttca tctaaaataa catggtacgt gccaccagtt tcacgagcaa 420
gtacagtgca aacgcgaact tctgcagaca atccaataac agatactcta attttagctg 480
cctttagggt cttgattaaa tcataaatat tagatggatc gcaagttgta aggntgctaa 540
aagatgatta gtacttctcg acttgtatgt ccaggcatgt tgttttaaan tctgccttag 600
nccctgctta ggggaatttt taaagaagat ggctctccat gttcanggtc aatcacnaat 660
tgcc 664

<210> 278

<211> 452

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(452)

<223> n = A,T,C or G

<400> 278

tgacctgaca ttgaggaaga gcacacacct ctgaaattcc ttaggttcag aagggcattt 60
gacacagagt gggcctctga taattcatga aatgcattct gaagtcattc agaattggagg 120
ctgcaatctg ctgtgctttg ggggttgect cactgtgctc ctggatatca cacaaaagct 180
gcaatccttc ttcttcaact aacattttgc agtatttgct gggattttta ctgcagacat 240
gatacatagc ccatagtgcc cagagctgaa cctctgggtg agagaagttg ccaaggagcg 300
ggaaaaatgt cttgaaagat ctatagggtca ccaatgctgt catcttaciaa cttgaacttg 360
gccaatctctg tatgggttgca tgcagatctt ggagaagagt acgcctctgg aagtcacggg 420
atatccaaan ctgtctgtca gatgtcaggt ca 452

<210> 279

<211> 274

<212> DNA

<213> Homo sapien

<400> 279

tttttttttt ttcggcaagg caaatctact tctgcaaaag ggtgctgctt gcacttttgg 60
ccactgcgag agcacaccaa acaaagtagg gaaggggttt ttatccctaa cgcggttatt 120
ccctggttct gtgtcgtgtc cccattggct ggagtcagac tgcacaatct aactgaccc 180
aactggctac tgttttaaat tgaatatgaa taattaggta ggaaggggga ggctgtttgt 240

AI
Cm't

tacggtacaa gacgtgtttg ggcattgtcag gtca

274

<210> 280
 <211> 272
 <212> DNA
 <213> Homo sapien

<400> 280
 tacctgacat ggagaaataa cttgtagtat tttgcgtgca atggaatact atatgagggt 60
 gaaaatgaat gaactagcaa tgcgtgtatc aacatgaata aatccccaaa acataataat 120
 gttgaatgga aaagggtgagt ttcagaagga tatatatgcc ctctaaatcc atttatgtaa 180
 acctttaaaa aactacatta tttatgggtca taagtccatc cagaaaaatat ttaaaaacct 240
 acatgggatt gataactact gatgtcaggt ca 272

<210> 281
 <211> 431
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(431)
 <223> n = A,T,C or G

<400> 281
 tttttttttt ttggccaata gcatgattta aacattggaa aaagtcaa at gagcaatgcg 60
 aatttttatg ttctcttgaa taatcaaaag agtaggcaac attgggttcct cattcttgaa 120
 tagcattaat cagaaaaatat tgcatagcct ctagcctcct tagagtaggt gtgctctctc 180
 aaatatatca tagtcccaca gtttatttca tgtatatatt ctgcctgaat cacatagaca 240
 tttgaatttg caacgcctga tgtaaata taaattctta ccaatcagaa acatagcaag 300
 aaattcaggg acttggtcat yatcagggtg tgacagcana tccctgtara aacactgata 360
 cacactcaca cacgtatgca acgtggagat gtcgcyttww kkktywcwm rmrycrwcn 420
 aatcacttan n 431

<210> 282
 <211> 98
 <212> DNA
 <213> Homo sapien

<400> 282
 attcgattcg atgcttgagc ccaggagtcc aagactgcag tgagccactg cacttcaggc 60
 tggacaacag agcgagtccc tgtgccaaaa aaaaaaaa 98

<210> 283
 <211> 764
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(764)

AI
 cm'it

<223> n = A,T,C or G

<400> 283

tttttttttt	ttcgcaagca	cgtgcacttt	attgaatgac	actgtagaca	ggtgtgtggg	60
tataaactgc	tgtatctagg	ggcaggacca	agggggcagg	ggcaacagcc	ccagcgtgca	120
gggccascac	tgcacagtgg	astgcaaagg	ttgcaggcta	tgggcggcta	ctavtaaccc	180
cgttttttct	gtattatctg	taacataata	tggtagactg	tcacagagcc	gaatwccart	240
hacasgatga	atccaawggt	caygaggatg	cccasaatca	gggcccasat	sttcaggcac	300
ttggcgggtg	gggcatasgc	ctgkgccccg	gtcacgtcsc	caaccwtcty	cctgtcccta	360
cmcttgawtc	cncnccttnn	nnnccntna	tntgccccgc	cncctcctng	ngtcaaccng	420
natctgcact	anctccctcn	ccccttntgg	antctcntcc	ttcaantaan	nttatccttn	480
acncccccct	cncctttccc	ctnccncccn	tnatcccngn	nccnctatca	ntcntnccct	540
cncntnctn	cmnatcggtc	cncctnntaa	ctacnctttn	nacnanncct	cactnatncc	600
ngnnantttct	ttccttccct	cccnaagcnn	tgcgtgcgcc	cgtctngcct	nnnctnccna	660
cccnnaacttt	atttaccttt	ncaccctagc	netctacttn	acccancnc	tcctacctcc	720
nggnccaccc	nnccctnatc	netnnctctn	tcnnctcntt	cccc		764

<210> 284

<211> 157

<212> DNA

<213> Homo sapien

<400> 284

caagtgtagg	cacagtgatg	aaagcctgga	gcaaacacaa	tctgtgggta	attaacgttt	60
attttctccc	ttccaggaac	gtcttgcatt	gatgatcaaa	gatcagctcc	tggtcaacat	120
aaataagcta	gtttaagata	cgttcccccta	cacttga			157

<210> 285

<211> 150

<212> DNA

<213> Homo sapien

<400> 285

attcgattgt	actcagacaa	caatatgcta	agtggaagaa	gtcagtcaca	aaagaccaca	60
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tagatgagca	gctgcctagg	tctgagtaca				150

<210> 286

<211> 219

<212> DNA

<213> Homo sapien

<400> 286

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gcaaccttgg	ttaggatcaa	tccaatatcc	accatctggg	aagtcaggat	ggctgagttg	180
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<210> 287

<211> 196

<212> DNA

AI
cm't

<213> Homo sapien

<400> 287

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<210> 288

<211> 199

<212> DNA

<213> Homo sapien

<400> 288

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taggtactga	agattcaagt	gaccgagatg	ctagcccttg	ggttcaagtg	atccctctcc	180
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<210> 289

<211> 182

<212> DNA

<213> Homo sapien

<400> 289

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<210> 290

<211> 1646

<212> DNA

<213> Homo sapien

<400> 290

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AI
Em.T

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<210> 291
<211> 1851
<212> DNA
<213> Homo sapien

<400> 291

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AI
em'f

<210> 292
 <211> 1851
 <212> DNA
 <213> Homo sapien

<400> 292

AI
Cm't

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tcaacttctt	taagcctttg	tgactcttcc	tctgatgtca	gctttaagtc	ttgttctgga	180
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<210> 293
 <211> 668
 <212> DNA
 <213> Homo sapien

<400> 293

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<210> 294
 <211> 1512
 <212> DNA
 <213> Homo sapien

<400> 294

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<210> 295
 <211> 1853
 <212> DNA
 <213> Homo sapien

<400> 295

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AI
cm.t

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<210> 296

<211> 2184

<212> DNA

<213> Homo sapien

<400> 296

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AI
cm.t

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 tgtagtccca gctactcagg argctgaggc aggagaatgg catgaacccg ggaggtggag 2100
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<210> 297
 <211> 1855
 <212> DNA
 <213> Homo sapien

<220>
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 <222> (1)...(1855)
 <223> n = A,T,C or G

<400> 297
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 gccgcccccg cataaccgtc agactggcct gtaacggctt gcaggcgcac gccgcacgcg 180
 cgtaacggct tggctgccct gtaacggctt gcacgtgcat gctgcacgcg cgtaacggc 240
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 tcttggattg acgcttccct cttggatkga cgtttccctc ttggatkga gtttctyty 360
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 gctgggtggt ttctccgggg gggkktgccc ttcctggggg gggcgtgggk cgccccagg 480
 gggcgtgggc tttccccggg tgggtgtggg ttttctggg gtgggtggg ctgtgctggg 540
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 gtaacntgct agttggtgaa actggttggg agacgcgcat tgctggtact actgtttctc 660
 ctggctgtta aaagcagatg gtggctgagg ttgattcaat gccggtgct tcttctgtga 720
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 aaagaggact gctctacatc tggcctctgc caatgggaat tcagaagtag taaaactcgt 1140
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AI
cm.t

```

ggccgtacaa tgccaggaag atgaatgtgc gttaatgttg ctggaacatg gcactgatcc 1260
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attaatggcc aaagcactgc tcttatacgg tgctgatatc gaatcaaaaa acaagggtata 1380
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<210> 298

<211> 1059

<212> DNA

<213> Homo sapien

<400> 298

AI
cm.t

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gcgcttgrgg agactmcgat gacagygcct tcatggagcc cagggtaccac gtccgtggag 180
aagatctgga caagctccac agagctgccc tgggtgggta aagtccccag aaaggatctc 240
atcgatcatg tcagggacac tgaygtgaac aagarggaca agcaaaagag gactgctcta 300
catctggcct ctgccaatgg gaattcagaa gtagtaaaac tctgtctgga cagacgatgt 360
caacttaatg tccttgacaa caaaaagagg acagctctga yaaaggccgt acaatgccag 420
gaagatgaat gtgctgtaat gttgctggaa catggcactg atccaaatat tccagatgag 480
tatggaaata ccactctrca ctaygctrct tayaatgaag ataaattaat ggccaaagca 540
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cttcaaaata ctgaaatgca ttcattttta cattgacgtg tgtaagggcc agtcttccgt 660
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ctttatttta aatattgtta ttttcaaaga agcattagag ggtacagttt ttttttttta 780
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ttgcctgaa ataggtttta catgaaaact ccaagaaaag ttaaacaatg ttcagtgaat 960
agagatcctg ctcctttggc aagttcctaa aaaacagtaa tagatacgag gtgatgcgcc 1020
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```

<210> 299

<211> 329

<212> PRT

<213> Homo sapien

<400> 299

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20           25           30
Glu Tyr Thr Ile Val His Ala Ser Phe Ile Ser Cys Ile Ser Ser Ser
35           40           45
Leu Asp Gly Gln Gly Glu Arg Gln Glu Gln Arg Gly His Phe Trp Arg
50           55           60

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Pro Gln Arg Leu Leu Cys Glu Asp Ala Trp Glu Gln Glu Val Gln Val
 65 70 75 80
 Val Leu Pro Leu Leu Pro Leu Leu Gln Gly Ser Gly Lys Ser Asn Val
 85 90 95
 Val Ala Trp Gly Asp Tyr Asp Asp Ser Ala Phe Met Asp Pro Arg Tyr
 100 105 110
 His Val His Gly Glu Asp Leu Asp Lys Leu His Arg Ala Ala Trp Trp
 115 120 125
 Gly Lys Val Pro Arg Lys Asp Leu Ile Val Met Leu Arg Asp Thr Asp
 130 135 140
 Val Asn Lys Arg Asp Lys Gln Lys Arg Thr Ala Leu His Leu Ala Ser
 145 150 155 160
 Ala Asn Gly Asn Ser Glu Val Val Lys Leu Val Leu Asp Arg Arg Cys
 165 170 175
 Gln Leu Asn Val Leu Asp Asn Lys Lys Arg Thr Ala Leu Thr Lys Ala
 180 185 190
 Val Gln Cys Gln Glu Asp Glu Cys Ala Leu Met Leu Leu Glu His Gly
 195 200 205
 Thr Asp Pro Asn Ile Pro Asp Glu Tyr Gly Asn Thr Thr Leu His Tyr
 210 215 220
 Ala Val Tyr Asn Glu Asp Lys Leu Met Ala Lys Ala Leu Leu Leu Tyr
 225 230 235 240
 Gly Ala Asp Ile Glu Ser Lys Asn Lys His Gly Leu Thr Pro Leu Leu
 245 250 255
 Leu Gly Ile His Glu Gln Lys Gln Gln Val Val Lys Phe Leu Ile Lys
 260 265 270
 Lys Lys Ala Asn Leu Asn Ala Leu Asp Arg Tyr Gly Arg Thr Ala Leu
 275 280 285
 Ile Leu Ala Val Cys Cys Gly Ser Ala Ser Ile Val Ser Pro Leu Leu
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 305 310 315 320
 Ser Met Leu Phe Leu Val Ile Ile Met
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<210> 300
 <211> 148
 <212> PRT
 <213> Homo sapien

<220>
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 <222> (1)...(148)
 <223> Xaa = Any Amino Acid

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 20 25 30
 Asp Leu Ile Val Met Leu Arg Asp Thr Asp Val Asn Lys Xaa Asp Lys

AI
Cm't

35 40 45
 Gln Lys Arg Thr Ala Leu His Leu Ala Ser Ala Asn Gly Asn Ser Glu
 50 55 60
 Val Val Lys Leu Xaa Leu Asp Arg Arg Cys Gln Leu Asn Val Leu Asp
 65 70 75 80
 Asn Lys Lys Arg Thr Ala Leu Xaa Lys Ala Val Gln Cys Gln Glu Asp
 85 90 95
 Glu Cys Ala Leu Met Leu Leu Glu His Gly Thr Asp Pro Asn Ile Pro
 100 105 110
 Asp Glu Tyr Gly Asn Thr Thr Leu His Tyr Ala Xaa Tyr Asn Glu Asp
 115 120 125
 Lys Leu Met Ala Lys Ala Leu Leu Leu Tyr Gly Ala Asp Ile Glu Ser
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 Lys Asn Lys Val
 145

<210> 301
 <211> 1155
 <212> DNA
 <213> Homo sapien

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 tgtgcgttaa tgttgctgga acatggcact gatccaaata ttccagatga gtatggaaat 720
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 gtcagccttc tacttgagca aaatattgat gtatcttctc aagatctatc tggacagacg 1020
 gccagagagt atgctgtttc tagtcatcat catgtaattt gccagttact ttctgactac 1080
 aaagaaaaac agatgctaaa aatctcttct gaaaacagca atccagaaaa tgtctcaaga 1140
 accagaaata aataa 1155

<210> 302
 <211> 2000
 <212> DNA
 <213> Homo sapien

<400> 302
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AI
cm't

AI
cm't

agcaacgtgg	gcacttctgg	agaccacgac	gactctgcta	tgaagacact	caggagcaag	180
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gacaagctcc	acagagctgc	ctggtgggg	aaagtcccca	gaaaggatct	catcgatcatg	480
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aaaaaaaaaa	aaaaaaaaaa					2000

<210> 303

<211> 2040

<212> DNA

<213> Homo sapien

<400> 303

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 aagcaatttt gtgaagaaca gaacactgga atattacacg atgagattct gattcatgaa 1860
 gaaaagcaga tagaagtggg tgaaaaaatg aattctgagc tttctcttag ttgtaagaaa 1920
 gaaaaagaca tcttgcatga aaatagtacg ttgcgggaag aaattgccat gctaagactg 1980
 gagctagaca caatgaaaca tcagagccag ctaaaaaaaa aaaaaaaaaa aaaaaaaaaa 2040

<210> 304
 <211> 384
 <212> PRT
 <213> Homo sapien

<400> 304
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 35 40 45
 His Asp Asp Ser Ala Met Lys Thr Leu Arg Ser Lys Met Gly Lys Trp
 50 55 60
 Cys Arg His Cys Phe Pro Cys Cys Arg Gly Ser Gly Lys Ser Asn Val
 65 70 75 80
 Gly Ala Ser Gly Asp His Asp Asp Ser Ala Met Lys Thr Leu Arg Asn
 85 90 95
 Lys Met Gly Lys Trp Cys Cys His Cys Phe Pro Cys Cys Arg Gly Ser
 100 105 110
 Gly Lys Ser Lys Val Gly Ala Trp Gly Asp Tyr Asp Asp Ser Ala Phe
 115 120 125
 Met Glu Pro Arg Tyr His Val Arg Gly Glu Asp Leu Asp Lys Leu His
 130 135 140
 Arg Ala Ala Trp Trp Gly Lys Val Pro Arg Lys Asp Leu Ile Val Met
 145 150 155 160
 Leu Arg Asp Thr Asp Val Asn Lys Lys Asp Lys Gln Lys Arg Thr Ala
 165 170 175

AI
 Cm. +

Leu His Leu Ala Ser Ala Asn Gly Asn Ser Glu Val Val Lys Leu Leu
 180 185 190
 Leu Asp Arg Arg Cys Gln Leu Asn Val Leu Asp Asn Lys Lys Arg Thr
 195 200 205
 Ala Leu Ile Lys Ala Val Gln Cys Gln Glu Asp Glu Cys Ala Leu Met
 210 215 220
 Leu Leu Glu His Gly Thr Asp Pro Asn Ile Pro Asp Glu Tyr Gly Asn
 225 230 235 240
 Thr Thr Leu His Tyr Ala Ile Tyr Asn Glu Asp Lys Leu Met Ala Lys
 245 250 255
 Ala Leu Leu Leu Tyr Gly Ala Asp Ile Glu Ser Lys Asn Lys His Gly
 260 265 270
 Leu Thr Pro Leu Leu Leu Gly Val His Glu Gln Lys Gln Gln Val Val
 275 280 285
 Lys Phe Leu Ile Lys Lys Lys Ala Asn Leu Asn Ala Leu Asp Arg Tyr
 290 295 300
 Gly Arg Thr Ala Leu Ile Leu Ala Val Cys Cys Gly Ser Ala Ser Ile
 305 310 315 320
 Val Ser Leu Leu Leu Glu Gln Asn Ile Asp Val Ser Ser Gln Asp Leu
 325 330 335
 Ser Gly Gln Thr Ala Arg Glu Tyr Ala Val Ser Ser His His His Val
 340 345 350
 Ile Cys Gln Leu Leu Ser Asp Tyr Lys Glu Lys Gln Met Leu Lys Ile
 355 360 365
 Ser Ser Glu Asn Ser Asn Pro Glu Asn Val Ser Arg Thr Arg Asn Lys
 370 375 380

<210> 305
 <211> 656
 <212> PRT
 <213> Homo sapien

<400> 305
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 20 25 30
 Pro Cys Cys Arg Glu Ser Gly Lys Ser Asn Val Gly Thr Ser Gly Asp
 35 40 45
 His Asp Asp Ser Ala Met Lys Thr Leu Arg Ser Lys Met Gly Lys Trp
 50 55 60
 Cys Arg His Cys Phe Pro Cys Cys Arg Gly Ser Gly Lys Ser Asn Val
 65 70 75 80
 Gly Ala Ser Gly Asp His Asp Asp Ser Ala Met Lys Thr Leu Arg Asn
 85 90 95
 Lys Met Gly Lys Trp Cys Cys His Cys Phe Pro Cys Cys Arg Gly Ser
 100 105 110
 Gly Lys Ser Lys Val Gly Ala Trp Gly Asp Tyr Asp Asp Ser Ala Phe
 115 120 125
 Met Glu Pro Arg Tyr His Val Arg Gly Glu Asp Leu Asp Lys Leu His
 130 135 140

AI
can't

Arg Ala Ala Trp Trp Gly Lys Val Pro Arg Lys Asp Leu Ile Val Met
 145 150 155 160
 Leu Arg Asp Thr Asp Val Asn Lys Lys Asp Lys Gln Lys Arg Thr Ala
 165 170 175
 Leu His Leu Ala Ser Ala Asn Gly Asn Ser Glu Val Val Lys Leu Leu
 180 185 190
 Leu Asp Arg Arg Cys Gln Leu Asn Val Leu Asp Asn Lys Lys Arg Thr
 195 200 205
 Ala Leu Ile Lys Ala Val Gln Cys Gln Glu Asp Glu Cys Ala Leu Met
 210 215 220
 Leu Leu Glu His Gly Thr Asp Pro Asn Ile Pro Asp Glu Tyr Gly Asn
 225 230 235 240
 Thr Thr Leu His Tyr Ala Ile Tyr Asn Glu Asp Lys Leu Met Ala Lys
 245 250 255
 Ala Leu Leu Leu Tyr Gly Ala Asp Ile Glu Ser Lys Asn Lys His Gly
 260 265 270
 Leu Thr Pro Leu Leu Leu Gly Val His Glu Gln Lys Gln Gln Val Val
 275 280 285
 Lys Phe Leu Ile Lys Lys Lys Ala Asn Leu Asn Ala Leu Asp Arg Tyr
 290 295 300
 Gly Arg Thr Ala Leu Ile Leu Ala Val Cys Cys Gly Ser Ala Ser Ile
 305 310 315 320
 Val Ser Leu Leu Leu Glu Gln Asn Ile Asp Val Ser Ser Gln Asp Leu
 325 330 335
 Ser Gly Gln Thr Ala Arg Glu Tyr Ala Val Ser Ser His His His Val
 340 345 350
 Ile Cys Gln Leu Leu Ser Asp Tyr Lys Glu Lys Gln Met Leu Lys Ile
 355 360 365
 Ser Ser Glu Asn Ser Asn Pro Glu Gln Asp Leu Lys Leu Thr Ser Glu
 370 375 380
 Glu Glu Ser Gln Arg Phe Lys Gly Ser Glu Asn Ser Gln Pro Glu Lys
 385 390 395 400
 Met Ser Gln Glu Pro Glu Ile Asn Lys Asp Gly Asp Arg Glu Val Glu
 405 410 415
 Glu Glu Met Lys Lys His Glu Ser Asn Asn Val Gly Leu Leu Glu Asn
 420 425 430
 Leu Thr Asn Gly Val Thr Ala Gly Asn Gly Asp Asn Gly Leu Ile Pro
 435 440 445
 Gln Arg Lys Ser Arg Thr Pro Glu Asn Gln Gln Phe Pro Asp Asn Glu
 450 455 460
 Ser Glu Glu Tyr His Arg Ile Cys Glu Leu Val Ser Asp Tyr Lys Glu
 465 470 475 480
 Lys Gln Met Pro Lys Tyr Ser Ser Glu Asn Ser Asn Pro Glu Gln Asp
 485 490 495
 Leu Lys Leu Thr Ser Glu Glu Glu Ser Gln Arg Leu Glu Gly Ser Glu
 500 505 510
 Asn Gly Gln Pro Glu Leu Glu Asn Phe Met Ala Ile Glu Glu Met Lys
 515 520 525
 Lys His Gly Ser Thr His Val Gly Phe Pro Glu Asn Leu Thr Asn Gly
 530 535 540
 Ala Thr Ala Gly Asn Gly Asp Asp Gly Leu Ile Pro Pro Arg Lys Ser

AI
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545 550 555 560
 Arg Thr Pro Glu Ser Gln Gln Phe Pro Asp Thr Glu Asn Glu Glu Tyr
 565 570 575
 His Ser Asp Glu Gln Asn Asp Thr Gln Lys Gln Phe Cys Glu Glu Gln
 580 585 590
 Asn Thr Gly Ile Leu His Asp Glu Ile Leu Ile His Glu Glu Lys Gln
 595 600 605
 Ile Glu Val Val Glu Lys Met Asn Ser Glu Leu Ser Leu Ser Cys Lys
 610 615 620
 Lys Glu Lys Asp Ile Leu His Glu Asn Ser Thr Leu Arg Glu Glu Ile
 625 630 635 640
 Ala Met Leu Arg Leu Glu Leu Asp Thr Met Lys His Gln Ser Gln Leu
 645 650 655

<210> 306
 <211> 671
 <212> PRT
 <213> Homo sapien

<400> 306

Met Val Val Glu Val Asp Ser Met Pro Ala Ala Ser Ser Val Lys Lys
 1 5 10 15
 Pro Phe Gly Leu Arg Ser Lys Met Gly Lys Trp Cys Cys Arg Cys Phe
 20 25 30
 Pro Cys Cys Arg Glu Ser Gly Lys Ser Asn Val Gly Thr Ser Gly Asp
 35 40 45
 His Asp Asp Ser Ala Met Lys Thr Leu Arg Ser Lys Met Gly Lys Trp
 50 55 60
 Cys Arg His Cys Phe Pro Cys Cys Arg Gly Ser Gly Lys Ser Asn Val
 65 70 75 80
 Gly Ala Ser Gly Asp His Asp Asp Ser Ala Met Lys Thr Leu Arg Asn
 85 90 95
 Lys Met Gly Lys Trp Cys Cys His Cys Phe Pro Cys Cys Arg Gly Ser
 100 105 110
 Gly Lys Ser Lys Val Gly Ala Trp Gly Asp Tyr Asp Asp Ser Ala Phe
 115 120 125
 Met Glu Pro Arg Tyr His Val Arg Gly Glu Asp Leu Asp Lys Leu His
 130 135 140
 Arg Ala Ala Trp Trp Gly Lys Val Pro Arg Lys Asp Leu Ile Val Met
 145 150 155 160
 Leu Arg Asp Thr Asp Val Asn Lys Lys Asp Lys Gln Lys Arg Thr Ala
 165 170 175
 Leu His Leu Ala Ser Ala Asn Gly Asn Ser Glu Val Val Lys Leu Leu
 180 185 190
 Leu Asp Arg Arg Cys Gln Leu Asn Val Leu Asp Asn Lys Lys Arg Thr
 195 200 205
 Ala Leu Ile Lys Ala Val Gln Cys Gln Glu Asp Glu Cys Ala Leu Met
 210 215 220
 Leu Leu Glu His Gly Thr Asp Pro Asn Ile Pro Asp Glu Tyr Gly Asn
 225 230 235 240
 Thr Thr Leu His Tyr Ala Ile Tyr Asn Glu Asp Lys Leu Met Ala Lys

AI
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245 250 255
 Ala Leu Leu Leu Tyr Gly Ala Asp Ile Glu Ser Lys Asn Lys His Gly
 260 265 270
 Leu Thr Pro Leu Leu Leu Gly Val His Glu Gln Lys Gln Gln Val Val
 275 280 285
 Lys Phe Leu Ile Lys Lys Lys Ala Asn Leu Asn Ala Leu Asp Arg Tyr
 290 295 300
 Gly Arg Thr Ala Leu Ile Leu Ala Val Cys Cys Gly Ser Ala Ser Ile
 305 310 315 320
 Val Ser Leu Leu Leu Glu Gln Asn Ile Asp Val Ser Ser Gln Asp Leu
 325 330 335
 Ser Gly Gln Thr Ala Arg Glu Tyr Ala Val Ser Ser His His His Val
 340 345 350
 Ile Cys Gln Leu Leu Ser Asp Tyr Lys Glu Lys Gln Met Leu Lys Ile
 355 360 365
 Ser Ser Glu Asn Ser Asn Pro Glu Gln Asp Leu Lys Leu Thr Ser Glu
 370 375 380
 Glu Glu Ser Gln Arg Phe Lys Gly Ser Glu Asn Ser Gln Pro Glu Lys
 385 390 395 400
 Met Ser Gln Glu Pro Glu Ile Asn Lys Asp Gly Asp Arg Glu Val Glu
 405 410 415
 Glu Glu Met Lys Lys His Glu Ser Asn Asn Val Gly Leu Leu Glu Asn
 420 425 430
 Leu Thr Asn Gly Val Thr Ala Gly Asn Gly Asp Asn Gly Leu Ile Pro
 435 440 445
 Gln Arg Lys Ser Arg Thr Pro Glu Asn Gln Gln Phe Pro Asp Asn Glu
 450 455 460
 Ser Glu Glu Tyr His Arg Ile Cys Glu Leu Val Ser Asp Tyr Lys Glu
 465 470 475 480
 Lys Gln Met Pro Lys Tyr Ser Ser Glu Asn Ser Asn Pro Glu Gln Asp
 485 490 495
 Leu Lys Leu Thr Ser Glu Glu Glu Ser Gln Arg Leu Glu Gly Ser Glu
 500 505 510
 Asn Gly Gln Pro Glu Lys Arg Ser Gln Glu Pro Glu Ile Asn Lys Asp
 515 520 525
 Gly Asp Arg Glu Leu Glu Asn Phe Met Ala Ile Glu Glu Met Lys Lys
 530 535 540
 His Gly Ser Thr His Val Gly Phe Pro Glu Asn Leu Thr Asn Gly Ala
 545 550 555 560
 Thr Ala Gly Asn Gly Asp Asp Gly Leu Ile Pro Pro Arg Lys Ser Arg
 565 570 575
 Thr Pro Glu Ser Gln Gln Phe Pro Asp Thr Glu Asn Glu Glu Tyr His
 580 585 590
 Ser Asp Glu Gln Asn Asp Thr Gln Lys Gln Phe Cys Glu Glu Gln Asn
 595 600 605
 Thr Gly Ile Leu His Asp Glu Ile Leu Ile His Glu Glu Lys Gln Ile
 610 615 620
 Glu Val Val Glu Lys Met Asn Ser Glu Leu Ser Leu Ser Cys Lys Lys
 625 630 635 640
 Glu Lys Asp Ile Leu His Glu Asn Ser Thr Leu Arg Glu Glu Ile Ala
 645 650 655

AI
Cm.t

Met Leu Arg Leu Glu Leu Asp Thr Met Lys His Gln Ser Gln Leu
 660 665 670

<210> 307
 <211> 800
 <212> DNA
 <213> Homo sapien

<400> 307

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 acttcatttt tggtagataa catctttata ggacaggggt aaaatcccaa tactaacagg 120
 agaatgctta ggactctaac aggtttttga gaatgtgttg gtaagggccca ctcaatccaa 180
 ttttcttggg tctccttgt ggtctaggag gacaggcaag ggtgcagatt ttcaagaatg 240
 catcagtaag ggccactaaa tccgaccttc ctcttccctc cttgtggtct gggaggaaaa 300
 ctagtgtttc tggtgctgtg tcagttagca caactattcc gatcagcagg gtccaggagac 360
 cactgcagggt tcttgggcag ggggagaaac aaaacaaacc aaaaccatgg gcrgttttgt 420
 ctttcagatg ggaacactc aggcataaac aggcacacct ttgaaatgca tcctaagcca 480
 atgggacaaa tttgaccac aaaccctgga aaaagagggt gctcattttt ttgcactat 540
 ggcttggccc caacattctc tctctgatgg ggaaaaatgg ccacctgagg gaagtacaga 600
 ttacaatact atcctgcagc ttgacctttt ctgtaagagg gaaggcaaat ggagtgaat 660
 accttatgtc caagctttct tttcattgaa ggagaataca ctatgcaaag cttgaaattt 720
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 tcctattagt gataagctc 800

<210> 308
 <211> 102
 <212> PRT
 <213> Homo sapien

<220>
 <221> VARIANT
 <222> (1)...(102)
 <223> Xaa = Any Amino Acid

<400> 308

Met Gly Xaa Phe Val Phe Gln Met Gly Asn Thr Gln Ala Ser Thr Gly
 1 5 10 15
 Ser Pro Leu Lys Cys Ile Leu Ser Gln Trp Asp Lys Phe Asp Pro Gln
 20 25 30
 Thr Leu Glu Lys Glu Val Ala His Phe Phe Cys Thr Met Ala Trp Pro
 35 40 45
 Gln His Ser Leu Ser Asp Gly Glu Lys Trp Pro Pro Glu Gly Ser Thr
 50 55 60
 Asp Tyr Asn Thr Ile Leu Gln Leu Asp Leu Phe Cys Lys Arg Glu Gly
 65 70 75 80
 Lys Trp Ser Glu Ile Pro Tyr Val Gln Ala Phe Phe Ser Leu Lys Glu
 85 90 95
 Asn Thr Leu Cys Lys Ala
 100

<210> 309

AI
 cm't

<211> 9
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Made in the lab

<400> 309
 Leu Met Ala Glu Glu Tyr Thr Ile Val
 1 5

<210> 310
 <211> 9
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Made in the lab

<400> 310
 Lys Leu Met Ala Lys Ala Leu Leu Leu
 1 5

<210> 311
 <211> 9
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Made in the lab

<400> 311
 Gly Leu Thr Pro Leu Leu Leu Gly Ile
 1 5

<210> 312
 <211> 10
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Made in the lab

<400> 312
 Lys Leu Val Leu Asp Arg Arg Cys Gln Leu
 1 5 10

<210> 313
 <211> 1852
 <212> DNA
 <213> Homo sapiens

AI
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<400> 313

ggcacgagaa ttaaaaccct cagcaaaaca ggcatagaag ggacatacct taaagtaata 60
 aaaaccacct atgacaagcc cacagccaac ataatactaa atggggaaaa gttagaagca 120
 tttcctctga gaactgcaac aataaatata aggatgctgg attttgtcaa atgccttttc 180
 tgtgtctgtt gagatgctta tgtgactttg cttttaattc tgtttatgtg attatcacat 240
 ttattgactt gcctgtgtta gaccggaaga gctgggggtg ttctcaggag ccaccgtgtg 300
 ctgcggcagc ttccgggataa cttgaggctg catcactggg gaagaaacac aytccgtgcc 360
 gtggcgctga tggctgagga cagagcttca gtgtggcttc tctgcgactg gcttcttcgg 420
 ggagttcttc cttcatagtt catccatatt gctccagagg aaaattatat tattttgtta 480
 tggatgaaga gtattacgtt gtgcagatat actgcagtgt cttcatctct tgatgtgtga 540
 ttgggtaggt tccaccatgt tgccgcagat gacatgattt cagtacctgt gtctggctga 600
 aaagtgtttg tttgtgaatg gatattgtgg tttctggatc tcatcctctg tgggtggaca 660
 gctttctcca ccttgctgga agtgacctgc tgtccagaag tttgatggct gaggagtata 720
 ccatcgtgca tgcattcttc atttctgca tttcttctc cctggatgga cagggggagc 780
 ggcaagagca acgtgggcac ttctggagac cacaacgact cctctgtgaa gacgcttggg 840
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 ctgctacttg gtatacatga gcaaaaacag caagtgggtg aatttttaat caagaaaaaa 1440
 gcgaatttaa atgcgctgga tagatatgga agaactgctc tcatacttgc tgtatgttgt 1500
 ggatcagcaa gtatagtcag cctctactt gagcaaaatg ttgatgtatc ttctcaagat 1560
 ctggaaagac ggccagagag tatgctgttt ctagtcatca tcatgtaatt tgccagttac 1620
 tttctgacta caaagaaaaa cagatgttaa aaatctcttc tgaaaacagc aatccagaac 1680
 aagacttaaa gctgacatca gaggaagagt cacaaaggct taaaggaagt gaaaacagcc 1740
 agccagagct agaagattta tggctattga agaagaatga agaacacgga agtactcatg 1800
 tgggattccc agaaaacctg actaacgggt ccgctgctgg caatggtgat ga 1852

<210> 314

<211> 879

<212> DNA

<213> Homo sapiens

<400> 314

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 aacgtgggca cttctggaga ccacaacgac tcctctgtga agacgcttgg gagcaagagg 120
 tgcaagtggg gctgccactg cttccctctg tgcaggggga gcggcaagag caacgtgggtc 180
 gcttggggag actacgatga cagcgcttct atggatccca ggtaccacgt ccatggagaa 240
 gatctggaca agctccacag agctgcctgg tggggtaaag tccccagaaa ggatctcatc 300
 gtcattgtca gggacacgga tgtgaacaag agggacaagc aaaagaggac tgctctacat 360
 ctggcctctg ccaatgggaa ttcagaagta gtaaaactcg tgctggacag acgatgtcaa 420
 cttaattgtc ttgacaacaa aaagaggaca gctctgacaa aggcctgaca atgccaggaa 480
 gatgaatgtg cgttaattgt gctggaacat ggcactgatc caaatattcc agatgagtat 540
 ggaaatacca ctctacacta tgctgtctac aatgaagata aattaatggc caaagcactg 600
 ctcttatacg gtgctgatat cgaatcaaaa aacaagcatg gcctcacacc actgctactt 660

AI
Cm't

ggtatacatg agcaaaaaca gcaagtgggtg aaatttttaa tcaagaaaaa agcgaattta 720
 aatgcgctgg atagatatgg aagaactgct ctcatacttg ctgtatgttg tggatcagca 780
 agtatagtca gccctctact tgagcaaaat gttgatgtat cttctcaaga tctggaaaga 840
 cggccagaga gtatgctgtt tctagtcac atcatgtaa 879

<210> 315

<211> 292

<212> PRT

<213> Homo sapiens

<400> 315

Met His Leu Ser Phe Pro Ala Phe Leu Pro Pro Trp Met Asp Arg Gly
 5 10 15

Ser Gly Lys Ser Asn Val Gly Thr Ser Gly Asp His Asn Asp Ser Ser
 20 25 30

Val Lys Thr Leu Gly Ser Lys Arg Cys Lys Trp Cys Cys His Cys Phe
 35 40 45

Pro Cys Cys Arg Gly Ser Gly Lys Ser Asn Val Val Ala Trp Gly Asp
 50 55 60

Tyr Asp Asp Ser Ala Phe Met Asp Pro Arg Tyr His Val His Gly Glu
 65 70 75 80

Asp Leu Asp Lys Leu His Arg Ala Ala Trp Trp Gly Lys Val Pro Arg
 85 90 95

Lys Asp Leu Ile Val Met Leu Arg Asp Thr Asp Val Asn Lys Arg Asp
 100 105 110

Lys Gln Lys Arg Thr Ala Leu His Leu Ala Ser Ala Asn Gly Asn Ser
 115 120 125

Glu Val Val Lys Leu Val Leu Asp Arg Arg Cys Gln Leu Asn Val Leu
 130 135 140

Asp Asn Lys Lys Arg Thr Ala Leu Thr Lys Ala Val Gln Cys Gln Glu
 145 150 155 160

Asp Glu Cys Ala Leu Met Leu Leu Glu His Gly Thr Asp Pro Asn Ile
 165 170 175

Pro Asp Glu Tyr Gly Asn Thr Thr Leu His Tyr Ala Val Tyr Asn Glu
 180 185 190

Asp Lys Leu Met Ala Lys Ala Leu Leu Leu Tyr Gly Ala Asp Ile Glu
 195 200 205

Ser Lys Asn Lys His Gly Leu Thr Pro Leu Leu Leu Gly Ile His Glu

AI
Cm.t

210 215 220

Gln Lys Gln Gln Val Val Lys Phe Leu Ile Lys Lys Lys Ala Asn Leu
 225 230 235 240

Asn Ala Leu Asp Arg Tyr Gly Arg Thr Ala Leu Ile Leu Ala Val Cys
 245 250 255

Cys Gly Ser Ala Ser Ile Val Ser Pro Leu Leu Glu Gln Asn Val Asp
 260 265 270

Val Ser Ser Gln Asp Leu Glu Arg Arg Pro Glu Ser Met Leu Phe Leu
 275 280 285

Val Ile Ile Met
 290

<210> 316
 <211> 584
 <212> DNA
 <213> Homo sapiens

<400> 316
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 gaggttata actaatagga agggagcta tagggaggct aggatatggg ggtaagctga 180
 gaggtcctcc tgtgggatgt aaatttcaag ctttgcatag tgtattctcc ttcaatgaaa 240
 agaaagcttg gacataaggt atttcaactcc atttgccttc cctcttacag aaaagggtcaa 300
 gctgcaggat agtattgtaa tctgtacttc cctcagggtg ccatttttcc ccatcagaga 360
 gagaatgttg gggccaagcc atagtgcaga aaaaaaatg agccacctct ttttccaggg 420
 tttgtgggtc aaatttgtcc cattggctta ggatgcattt caaagggtgag cctgttgatg 480
 cctgagtgtt tcccatctga aagacaaaac tgcccatggg tttggtttgt tttgtttctc 540
 ccctgcccc agaactatca aactcctgag ccaacaacta aaaa 584

<210> 317
 <211> 829
 <212> DNA
 <213> Homo sapiens

<400> 317
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 acttcatttt tggtagataa catctttata ggacaggggt aaaatcccaa tactaacagg 120
 agaatgctta ggactctaac aggtttttga gaatgtgttg gtaagggcca ctcaatccaa 180
 tttttcttgg tcctccttgt ggtctaggag gacaggcaag ggtgcagatt ttcaagaatg 240
 catcagtaag ggccactaaa tccgaccttc ctggttcttc cttgtgtgtc gggaggaaaa 300
 ctagtgttcc tgttgctgtg tcagtgcaga caactattcc gatcagcagg gtccagggac 360
 cactgcagggt tcttgggcag ggggagaaac aaaacaaacc aaaaccatgg gcagtgttgt 420
 ctttcagatg ggaaacactc aggcataaac aggtcacct ttgaaatgca tctaagcca 480
 atgggacaaa tttgaccac aaaccctgga aaaagagggt gtcattttt tttgcactat 540
 ggcttggtcc caacattctc tctctgatgg ggaaaaatgg ccacctgagg gaagtacaga 600
 ttacaatact atcctgcagc ttgacctttt ctgtaagagg gaaggcaaat ggagtgaat 660

accttatgtc caagctttct tttcattgaa ggagaataca ctatgcaaag cttgaaattt 720
acatcccaca ggaggacctc tcagcttacc cccatatact agcctcccta tagctccct 780
tcctattagt gataagcctc ctctaatac cccacccag aagaaaata 829

A1
could
